Service
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Service Manual

Horizontal Frequency
31~60 kHz

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SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFOMER FOR THIS UNIT WHEN SERVICING

Revision List

Version	Release Date	Revision Instructions	TPV Model
A00	July.-31-2008	Initial Release	E478MZNKW8A52N
A01	Sep-28-2008	Add ne BOM	E478MZNKW8AENN
			E478MZNSW8AENN

Important Safety Notice

Proper service and repair is important to the safe, reliable operation of all AOC Company Equipment. The service procedures recommended by AOC and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. AOC could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, AOC has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by AOC must first satisfy himself thoroughly that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.
Hereafter throughout this manual, AOC Company will be referred to as AOC.

WARNING
Use of substitute replacement parts, which do not have the same, specified safety characteristics might create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from AOC. AOC assumes no liability, express or implied, arising out of any unauthorized modification of design.
Servicer assumes all liability.

FOR PRODUCTS CONTAINING LASER:
DANGER-Invisible laser radiations when open AVOID DIRECT EXPOSURE TO BEAM.
CAUTION-Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
CAUTION -The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL.
Take care during handling the LCD module with backlight unit
-Must mount the module using mounting holes arranged in four corners.
-Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
-Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
-Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
-Make certain that treatment person’s body is grounded through wristband.
-Do not leave the module in high temperature and in areas of high humidity for a long time.
-Avoid contact with water as it may a short circuit within the module.
-If the surface of panel becomes dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

1. General Specification

Television System: NTSC standard PAL M/N	**HDMI Terminals:** HDMI INPUT: Rear HDMI x2 HDCP compliant E-EDID compliant Supported scan rates: 1080p,1080i, 720p, 480p, 480i
Channel Coverage: VHF: 2 through 13 UHF: 14 through 69 Cable TV: Mild band (A-8 through A-1, A through I) Super band (J through W) Hyper band (AA through ZZ, AAA, BBB) Ultra band (65 through 94, 100 through 125)	**VGA Terminals:** VGA INPUT: Rear VGA (D-SUB 15 Pin) Input x1 E-EDID compliant Supported scan rates: 640X480 /60Hz/75Hz 720X400 /70Hz 800x600 /60Hz /72Hz/75Hz 832x624/75Hz 1024X768 /60Hz/70Hz/75Hz 1360X768 /60Hz 1440X900 /60Hz Recommended: 1360X768 /60Hz Audio INPUT: Headphone Mini-jack for stereo (3.5Φ)
Power Source: AC power supply: 100V~240 V, 50/60 Hz	
Power Consumption ≤ 250 W 1 W in standby mode (power cord plugged in and power OFF)	**Dimensions:** Include Stand: 1125mm(W) x 768mm(H) x 314mm(L)
Audio Power 7 W + 7 W, Internal Speaker	**Weight:**26.5kg(With Stand)
Video/Audio Terminals: Rear AV x1 ,Side AV x1 S-Video/Video/Audio Input Rear AV out x1 Video/Audio output	**Wall Mounting**: 400x200mm (Wall mount kit is not included)
S-VIDEO INPUT: Y : 1 V(p-p), 75 ohm, negative sync. C : 0.286 V(p-p) (burst signal), 75 ohm **VIDEO/AUDIO INPUT:** VIDEO: 1 V(p-p), 75 ohm, negative sync. AUDIO: 0.5V(rms) **Component INPUT:** Rear Component x1: Y : 1V(p-p), 75 ohm, including sync. Pr/Cr: ±0.35V(p-p), 75 ohm Pb/Cb: ±0.35V(p-p), 75 ohm AUDIO: 0.5V(rms) Supported resolutions:1080p,1080i, 720p, 480p,480i	**Supplied Accessories:** Remote Control Two (AAA) Batteries (Except Argentina) Base Four M6 screws (to attach the Base to the stand) Power Cord Signal cable Audio cable User Manual Quick Setup Guide

2. Operating Instructions

2.1 The Use of Remote Control

POWER
Press to power ON/OFF (standby) TV.(Note:1.TV is never completely power off.
unless physically unplugged.
2.Press to turn on TV after the power on status LED had changed to the red color and stopped flashing.)

VIDEO
Press repeatedly to choose S-Video/Composite source mode (Video 1 ~ 2).

COMP
Press repeatedly to choose Component source mode (Video 3).

PC/HDMI
Press repeatedly to choose VGA or HDMI source mode (Video 4 ~ 6).

TV
Press to choose ATSC/NTSC TV source mode.

0 ~ 9 /- number
Press to enter TV channel number to select channel (Press '-' to indicate choosing the sub-channel).

SLEEP
Press to set a time period (off/5 min /10 min /15 min /30min/45 min /60min/90min/120 min /180 min /240 min)after which the TV should switch itself to standby mode.

FREEZE
Press to freeze the displayed picture

CH-/ CH +
Press + or - to browse through the TV channels.

MENU
Press to open or exit menu.

"∧","∨","<",">", "ENTER
Press to adjust the various function items on the menu.

PREV CH
Press to display the previous TV .

MTS/SAP
Press to activate the NTSC TV sounds, such as: Stereo, SAP or Mono tone. And languages of DTV.

WIDE
Press to choose the display aspect as: Normal, Wide, Zoom or Cinema mode.

SOURCE
Press repeatedly to choose the various input sources (Video 1 ~ 6).

EPG
This function is not support.

MUTE
Press to set TVsound mute ON/OFF

DISPLAY
Press to show the information about the input source、TV channel、display resolution and current time.

VOL- / VOL+
Press + or - to adjust the volume.

Exit
Press to exit menu or OSD.

V-CHIP
Press to lock / unlock Parental Control temporarily. (After setting the restricted table of MPAA or TV Rating.)

VIDEO ADJ
Press to choose the Brightness or Contrast adjustment.

AUDIO ADJ
Press to switch the ATSC multi-channel TV sounds.

CC
Press repeatedly to change the closed caption type as CC ON/CC OFF/CC ON WHEN MUTE.

FAVORITE
Press to toggle the Favorite/Normal mode.

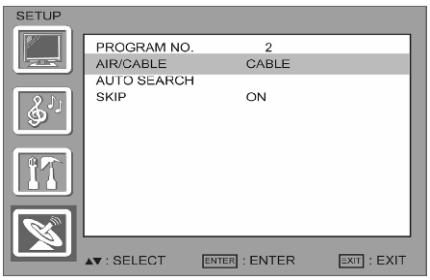
2.2 To Use the Menus

1. Press the **MENU** button to display the main menu
2. Use the **cursor up**/**down** to select a menu item.
3. Use the **cursor left**/**right** to enter a submenu.
4. Press the **ENTER** button to enable/disable the function.
5. Press the **MENU** or **EXIT** button to exit the menu.

Press the MENU button to enter the main OSD (On Screen Display). Adjust theitems including **Setup menu**, **Video menu**, **Audio menu** and **Feature menu**.However, some function items in the menus may only be enabled in the particular source modes.

SETUP MENU

The Setup menu in TV mode shows as below. In others source modes, the Setup menu only shows **Menu Language** and **Aspect Ratio** items.



1. **PROGRAM NO**: Show the TV channel label menu for user modifying channel labels specifically.
2. **AIR**/ **CABLE**: Select TV source signal from the Air (antenna) or Cable (CATV).
3. **AUTO SEARCH**: Automatically scan all NTSC TV channels and then store in the channel table. In channel scan process, the OSD can display the number of channels which had been found.
4. **SKIP :**you can select the ship ON/OFF ,so that the program no channel can be delete or added.

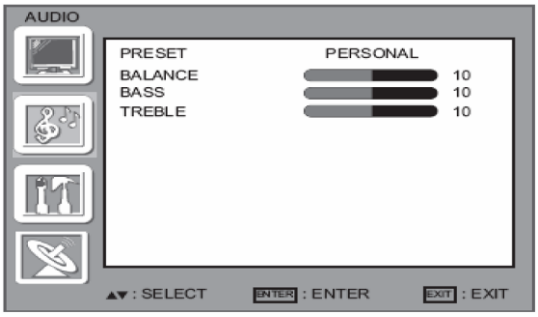
VIDEO MENU

The Video menu in most source modes shows as below. It provides several videoadjustment items for user fine tuning the video display. Only in VGA sourcemodes, the Video menu simply provides **Contrast**, **Brightness**, **Back light** and **Settings (Preset)** items.

If you selected **PERSONAL**, press or to highlight an option, then press ∧or∨ to adjust the option. You can adjust:
1. **CONTRAST**: Video contrast adjustment, the tuning range is 0 ~ 100.
2. **BRIGHTNESS**: Video brightness adjustment, the tuning range is 0 ~ 100.
3.**SATURATION:** COLOR saturation adjust, the tuning range is 0 ~ 100
4. **TINT**: Video tint adjustment, the tuning range is R50 ~ G50.
5. **SHARPNESS**: Video sharpness adjustment, the tuning range is 0~10
6. **BACKLIGHT**: Backlight strength adjustment, the tuning range is 0 ~ 10.
7. **EDGE ENHANCE:** Press < or > to select **HIGH**, **OFF**, or **LOW**.
8.**NOISE REDUCTION:** Press < or > to select **HIGH**,**OFF**, **LOW**,or **MID**.
9.**COLOR TEMPERATURE:** Press < or > to select **COOL**, **STANDARD**, or **WARM**.

AUDIO MENU

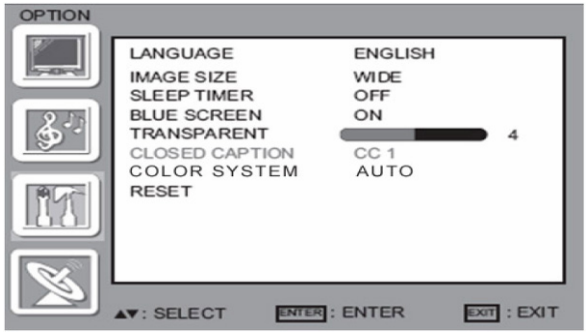
The Audio menu in TV mode shows as below. It provides audio adjustment for user to modify the audio setting. Audio language setting is only available with ATSC TV source, the option is disable under other source modes.



Press ∧or ∨to highlight **AUDIO**, then press > The AUDIO menu opens.
Press ∧or ∨ to highlight **PRESET**, then press < or > to select an audio mode.
You can select:
• **VOICE**
• **MUSIC**
• **THEATER**
• **PERSONAL**
If you selected **PERSONAL**, press∧ or∨ to highlight an option, then press ∧ or ∨to adjust the option. You can adjust:
• **BALANCE**—Adjusts the balance between the right and left audio channels.
• **BASS**—Adjusts the low sounds.
•**TREBLE**—Adjusts the high sounds.

FEATURE MENU

The Feature menu in av/S-video mode shows as below. It provides certain optional control functions such as inmage size, sleep timer, blue screen on/off, transparent, closed caption, color systerm. This menu gives users the most flexibilities to satisfy their generally demands. According to the various requirements in different source modes, certain features should be hidden
(disable) on the menu. The details footnotes will be described clearly below.

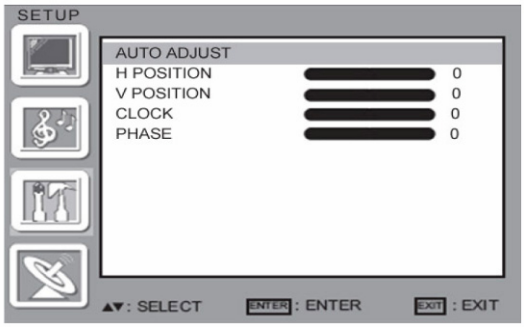


1. LANGUAGE: you can selete the ENGLISH SPANISH Portuguese French
2. IMAGE SIZE : you can selete **WIDE, ZOOM, CINEMA, NORMAL**
3. SLEEP TIMER: Enable or disable the TV standby timer. User can set the TV standby timer as off / 5 min / 10 min / 15 min/ 30 min / 45 min / 60 min/ 90 min / 120 min / 180min/ 240min. Timer starts to count down after cursor leaving the sub-menu. (At the moment, the item shows 『** min Left』and the cursor highlights on the Feature icon.)
4. BLUE SCREEN: you can selete blue screen ON/OFF
5. TRANSPARENT: you can selete from 0 to 7
6. CLOSED CAPTION：Press or to highlight **CLOSED CAPTION**, then press or to select the closed captioning mode. You can select **CC1**,**CC2**, **CC3**,
CC4, **TT1**, **TT2**, **TT3** or **TT4**.
7. COLOR SYSTEM: this function you select color system,default is auto,you can choose NTSC, PAL M, PAL N.

8. RESET: you can use it reset all setting to default.

VGA SETTING MENU

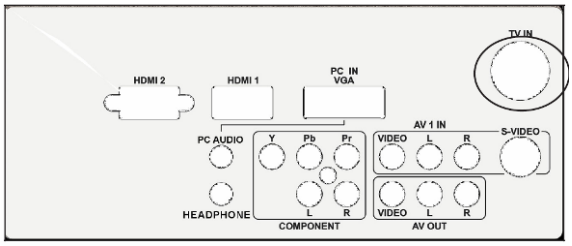
VGA Set: This option only shows and is available in VGA mode, which provides several items for the VGA display fine tuning, such as : 【H-Position】,【VPosition】,【Clock】and 【Phase】. All these items giving the tuning range from 0 to 100. 【Setting 】item provides the default VGA setting values restoring.



2.3 How to Connect

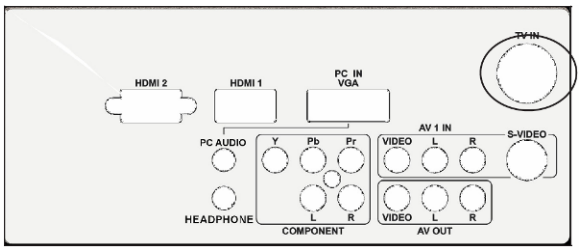
Connecting Equipment

Coaxial (RF)
Using Your Antenna or Cable for TV



1. Turn off the power to the TV.
2. Connect the coaxial (RF) connector from your antenna or cable (outof- the-wall, not from the Cable Box) to the TV IN connector
3. Turn on the power to the TV.
4. Select TV using the INPUT button on the remote, side of the TV or directly by pressing the TV button on the Remote Control.

Using the Antenna or Cable for your VCR

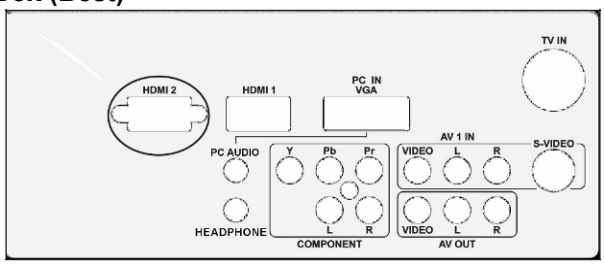


1. Turn off the power to the TV and VCR.
2. Connect the “Output to TV”, “RF Out” or “Antenna Out” connector on the rear of your VCR to the TV IN connector at the rear of the TV.
3. Turn on the power to the TV and VCR.
4. Select TV using the INPUT button on the remote, side of the TV or directly by pressing the TV button on the Remote Control.

Note: If you have an off-air antenna or cable TV, connect it to the “Antenna In” connector on the rear of your VCR.

Connecting Your TV Set-Top Box
Using HDMI
TV Set-Top Boxes that have a HDMI digital interface should be connected to the HDMI input of the LCD TV for optimal results.

Connecting your TV Set-Top Box (Best)



Turn off the power to the TV and TV Set-Top Box.
1. Connect a HDMI cable to the HDMI output of your TV Set-Top Box and the other end to the HDMI Input at the rear of the TV.
2. Turn on the power to the TV and TV Set-Top Box.
3. Select HDMI using the INPUT button on the remote, side of the TV, or directly by pressing the HDMI button on the Remote Control.

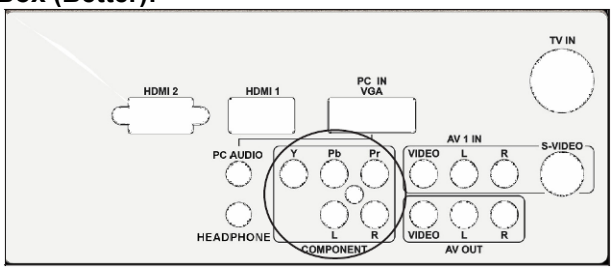
Note:
a) The HDMI input on the TV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
b) Refer to your TV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator

For TV Set-Top Boxes with DVI
1. Turn off the power to the TV and TV Set-Top Box.
2. Using a HDMI-DVI cable, connect the DVI end to your TV Set-Top Box and the HDMI end to the HDMI Input at the rear of the TV.
3. Turn on the power to the TV and TV Set-Top Box.
4. Select HDMI using the INPUT button on the remote, side of the TV, or directly by pressing the HDMI button on the Remote Control.

Note:
a) The HDMI input on the TV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
b) Refer to your TV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.
c) The DVI to HDMI connection provides video only. Connection to an alternate audio player is required for audio.

Using Component Video

Connecting your TV Set-Top Box (Better):

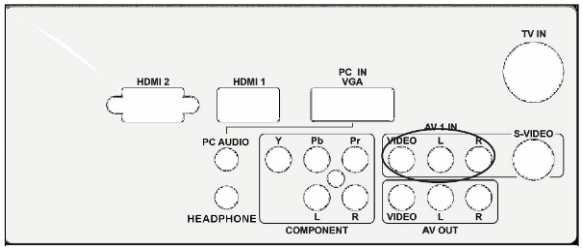


1. Turn off the power to the TV and TV Set-Top Box.
2. Connect the Pr (red color) connector on your TV Set-Top Box to the corresponding Pr (red color) connector in the Component group.
3. Connect the Pb (blue color) connector on your TV Set-Top Box to the corresponding Pb (blue color) connector in the Component group.
4. Connect the Y (green color) connector on your TV Set-Top Box to the corresponding Y (green color) connector in the Component group.
5. Using an audio cable (red and white connectors), connect the cable to the audio output connectors associated with the Component output on your TV Set-Top Box and connect the other end to the audio connectors associated with the Component.
6. Turn on the power to the TV and TV Set-Top Box.
7. Select Component (Video 3) using the INPUT button on the remote, side of the TV or directly by pressing the Component button on the Remote Control.

Note:
Refer to your TV Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.

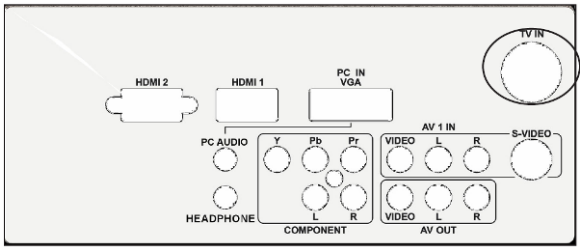
Connecting Your Basic Set-Top Box

Using Composite Video



1. Turn off the power to the TV and Set-Top Box.
2. Using an AV Cable, connect the Video (yellow color) connector on your Set-Top Box to the corresponding Video (yellow color) connector in the AV group at the rear of the TV.
3. Using the red and white connectors, connect the cable to the audio output connectors associated with the Video output on your Set-Top Box and connect the other end to the audio connectors associated with the AV input at the rear of the TV.
4. Turn on the power to the TV and Set-Top Box.
5. Select Composite (Video 1) using the INPUT button on the remote, side of the TV or directly by pressing the AV button on the Remote Control.

Using Coax (RF)



1. Turn off the power to the TV and Set-Top Box.
2. Using a Coax (RF) cable, connect one end to the TV OUT (RF) on your Set Top Box and the other end to the DTV/TV input at the rear of the TV.
3. Turn on the power to the TV and Set-Top Box.
4. Select TV using the INPUT button on the remote, side of the TV or directly by pressing the TV button (below the WIDE button) on the Remote Control.

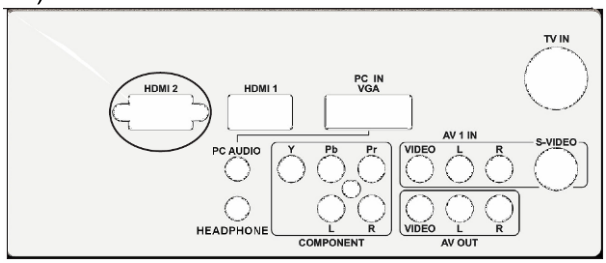
Note: Refer to your Set Top Box user manual for more information about selecting the video or RF output of the product.

Connecting Your DVD Player

Using HDMI

DVD players that have a digital interface such as HDMI (High Definition Multimedia Interface) should be connected to the HDMI input of the LCD TV for optimal results.

Connecting your DVD Player (Best)



1. Turn off the power to the TV and DVD player.
2. Connect a HDMI cable to the HDMI output of your DVD player and the other end to the HDMI Input at the rear of the TV.
3. Turn on the power to the TV and DVD player.
4. Select HDMI using the INPUT button on the remote, side of the TV or directly by pressing the HDMI button on the Remote Control.

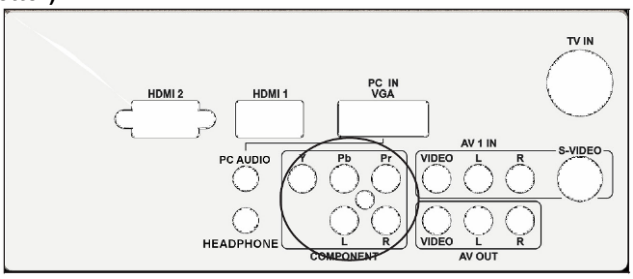
For DVD Players with DVI:

1. Turn off the TV and DVD player.
2. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the HDMI Input at the rear of the TV.

3. Turn on the power to the TV and your DVD player.
4. Select HDMI using the INPUT button on the remote or side of the TV, or directly by pressing the HDMI button on the Remote.

Note:
1. Refer to your DVD player user manual for more information about the video output requirements of the product.
2. The DVI to HDMI connection provides video only. Connection to an alternate audio player is required for audio output.

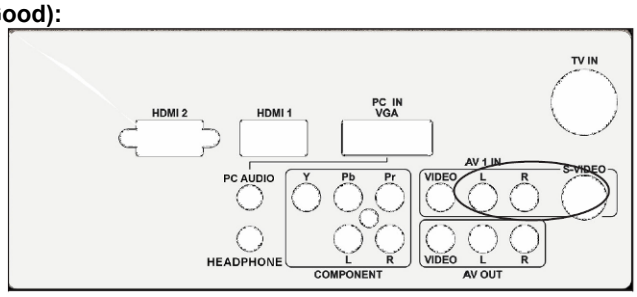
Using Component Video
Connecting your DVD Player (Better)



1. Turn off the power to the TV and DVD player.
2. Connect the Pr (red color) connector on your DVD player to the corresponding Pr (red color) connector in the Component at the rear of the TV.
3. Connect the Pb (blue color) connector on your DVD player to the corresponding Pb (blue color) connector in the Component group at the rear of the TV.
4. Connect the Y (green color) connector on your DVD player to the corresponding Y (green color) connector in the Component group at the rear of the TV.
5. Using an audio cable (red and white connectors), connect the cable to the audio output connectors associated with the Component output on your DVD player and connect the other end to the audio connectors associated with the Component input at the rear of the TV.
6. Turn on the power to the TV and DVD player.
7. Select Component using the INPUT button on the remote, side of the TV or directly by pressing the Component button on the Remote Control.

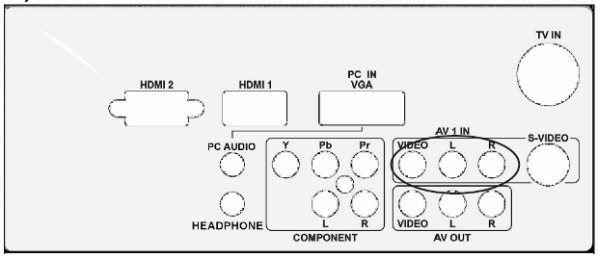
Note: Refer to your DVD player user manual for more information about the video output requirements of the product.

Using S-Video (AV)
Connecting your DVD Player (Good):



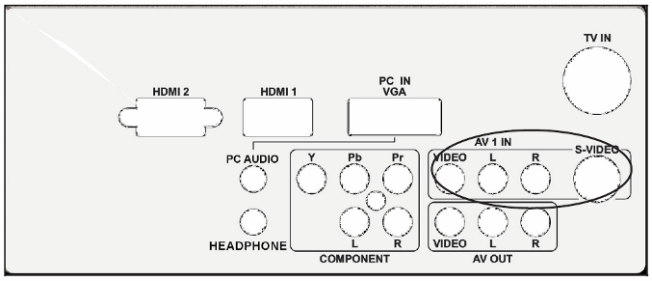
1. Turn off the power to the TV and DVD player.
2. Connect the S-Video jack on the rear of your DVD player to the SVideo jack in the AV group on the rear of the TV.
3. Connect an audio cable (white and red connectors) to the audio output connectors associated with the S-Video output on your DVD player and connect the other end to the audio connectors associated with the AV input on the rear of the TV.
4. Turn on the power to the TV and DVD player.
5. Select S-Video (Video 2) using the INPUT button on the remote, side of the TV, or directly by pressing the AV button on the Remote Control.

Using Composite (AV) Video
Connecting your DVD Player (Good)



1. Turn off the power to the TV and DVD player.
2. Connect the Video (yellow color) connector on your DVD player to the Video (yellow color) connector in the AV group.
3. Connect the R (red color) and L (white color) audio connectors on your DVD player to the corresponding R (red color) and L (white color) audio input connectors in the AV group.
4. Turn on the power to the TV and DVD Player.
5. Select Composite (Video 1) using the INPUT button on the remote, side of the TV or directly by pressing the AV button on the Remote Control.

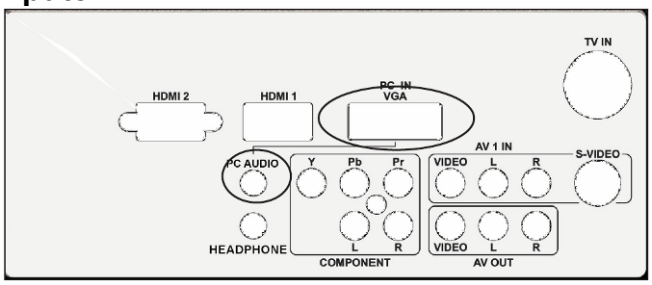
Connecting Your VCR or Video Camera



1. Turn off the TV and VCR or Video Camera.
2. Connect the S-Video jack on the rear of your VCR or Video Camera to the S-Video jack in the AV group on the rear of the TV.
3. Connect an audio cable (white and red connectors) cable to the audio output connectors associated with the S-Video output on your VCR or Video Camera and connect the other end to the audio connectors associated with the AV input on the rear of the TV.
4. Turn on the power to the TV and VCR or Video Camera.
5. Select S-Video (Video 2) using the INPUT button on the remote, side of the TV or directly by pressing the AV button on the Remote Control.

Note: Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

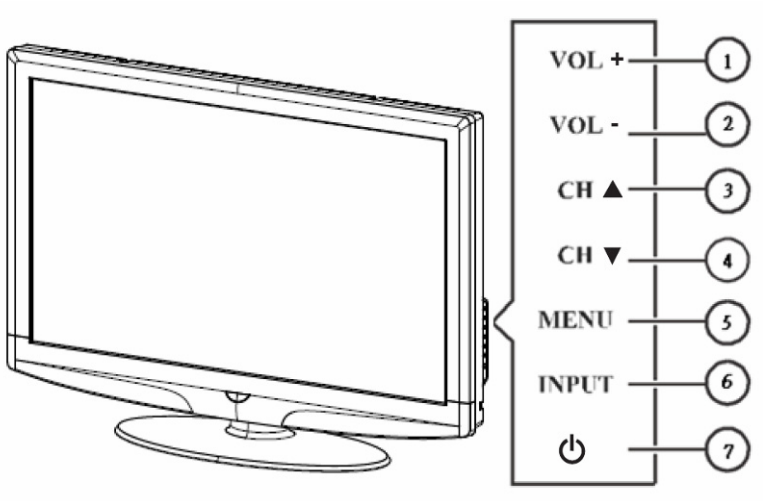
Connecting to a PC Computer



1. Turn off the power to the TV and PC Computer.
2. Connect a 15-pin D-Sub RGB (VGA) cable to the RGB output of your pc computer and the other end to the RGB PC input at the rear of the TV.
3. Connect the Audio Out on your pc computer to the RGB PC Audio input at the rear of the TV.
4. Turn on the TV and PC Computer.
5. Select RGB using the INPUT button on the remote, side of the TV or directly by pressing the RGB button on the Remote.

Note: For the best picture quality when connecting a PC computer through RGB PC, set your PC computer timing mode to native resolution of panel. Please refer to the PC or graphic card's user guide for additional information on how to set the timing mode and the video output requirements of the product.

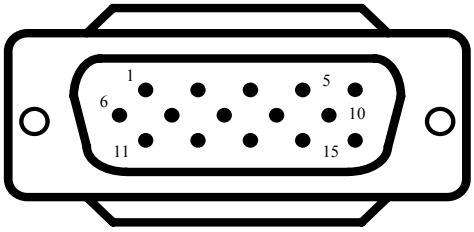
2.4 Front Panel Control Knobs



1.	VOL **+**	**VOL +:** Press to increase the sound volume level.
2.	VOL **-**	**VOL - :** Press to decrease the sound volume level.
3.	CH ▲	**CH +:** Press to select the next higher Program number.
4.	CH ▼	**CH - :** Press to select the next lower Program number.
5.	MENU	**Menu key:** Press to open or exit the OSD menu.
6.	INPUT	**Source key:** Press to select the input source.
7.	⏻	**Power key:** Press to turn on / off (standby) the TV set. (Please re-turn on TV after the Power-ON status LED had changed to the Red color and finished flashing.)

3. Input/Output Specification

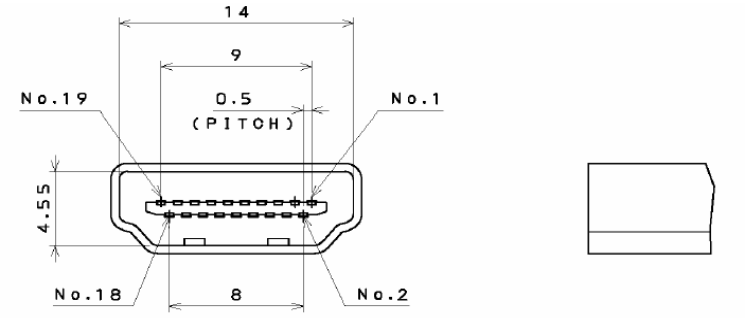
3.1 RGB Signal input



15 - Pin Color Display Signal Cable

Pin No.	Description	Pin No.	Description
1	Red Video	9	Mandatory +5V Supply for PC Bypass
2	Green Video	10	Sync Ground
3	Blue Video	11	SDA(Remote Control)
4	SCL(Remote Control)	12	Bi-directional Data (SDA) for PC Bypass
5	Ground	13	H-Sync.
6	Red Video Ground	14	V-Sync.
7	Green Video Ground	15	Data Clock (SCL) for PC Bypass
8	Blue Video Ground		

3.2 HDMI Digital connector pin assignments



Pin No.	Description	Pin No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	NC
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

3.3 AV/S-Video/Component Video Inputs

AV (Composite Video input)		
Video1		
	System	NTSC
	Amplitude	1.0 V (p-p), negative sync.
	Impedance	75 ohm terminated
S-Video (Y / C input)		
S-Video2		
	System	NTSC
	Y signal amplitude	1.0Vpp (including sync)
	C signal amplitude	0.286Vpp
	Impedance	75 ohm terminated
Component (Y, Pb/Cb, Pr/Cr input)		
Video3		
	System	1080i, 480p, 720p, 480i
	Y signal amplitude	1.0Vpp (including sync)
	Cr, (R-Y) / Cb, (B-Y) Signal amplitude	±0.35Vpp, 75 ohm
	Impedance	75 ohm terminated

3.4 Compatible Mode Table

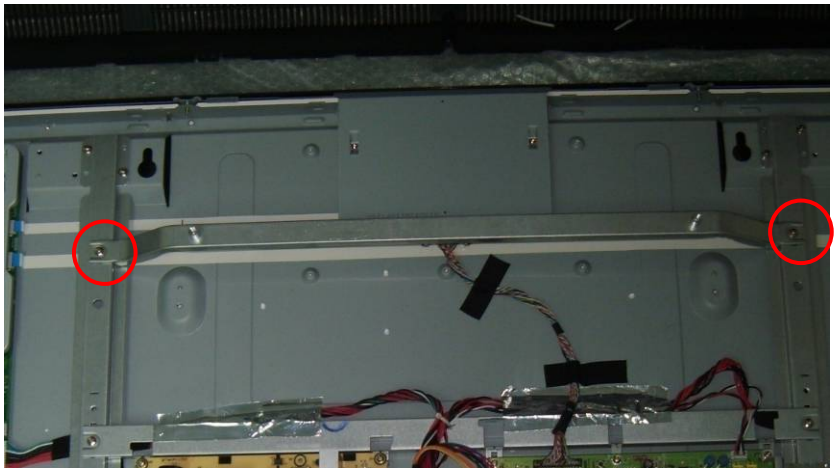
VESA MODES							
			Horizontal		Vertical		
Mode	Resolution	Total	Nominal Frequency (KHz)	Sync Polarity	Nominal Freq. (Hz)	Sync Polarity	Nominal Pixel Clock (MHz)
VGA	640x480@60Hz	800 x 525	31.469	N	59.940	N	25.175
	640x480@72Hz	832 x 520	37.861	N	72.809	N	31.500
	640x480@75Hz	840 x 500	37.5	N	75	N	31.500
	720x400@70Hz	900 x 449	31.469	N	70.087	P	28.322
SVGA	800x600@56Hz	1024 x 625	35.156	P	56.25	P	36.000
	800x600@60Hz	1056 x 628	37.879	P	60.317	P	40.000
	800x600@72Hz	1040 x 666	48.077	P	72.188	P	50.000
	800x600@75Hz	1056 x 625	46.875	P	75	P	49.5
XGA	1024x768@60Hz	1344x806	48.363	N	60.004	N	65.000
	1024x768@70Hz	1328x806	56.476	N	70.069	N	75.000
	1024x768@75Hz	1312x800	60.023	P	75.029	P	78.750
SXGA	1280x1024@60Hz	1688x1066	63.981	P	60.020	P	108.000
FHD	1920x1080@60Hz	2080x1111	66.587	P	59.934	N	138.500

4. Mechanical Instructions

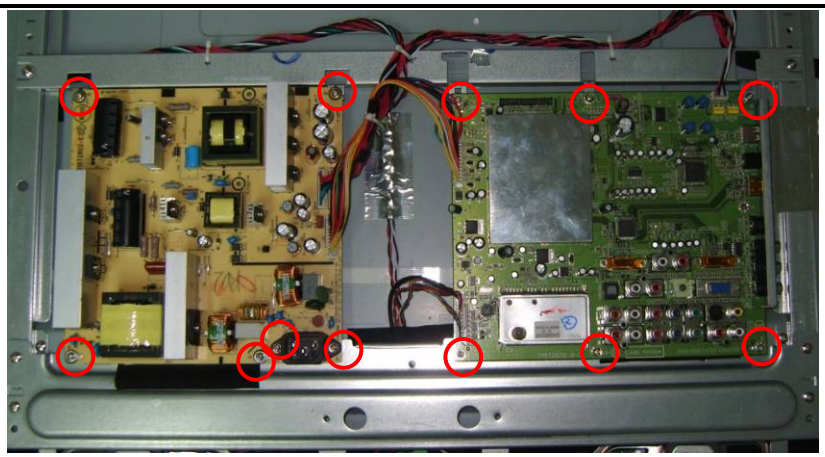
1. Remove the 4 screws to remove the stand.

2. Remove 13 screws to remove the rear cover.

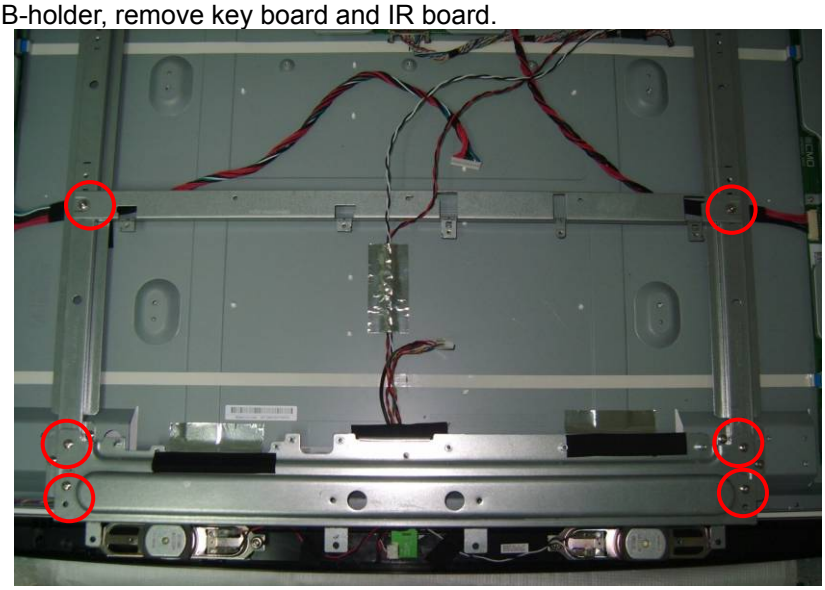
3. Remove the bkt-PCB-holder,



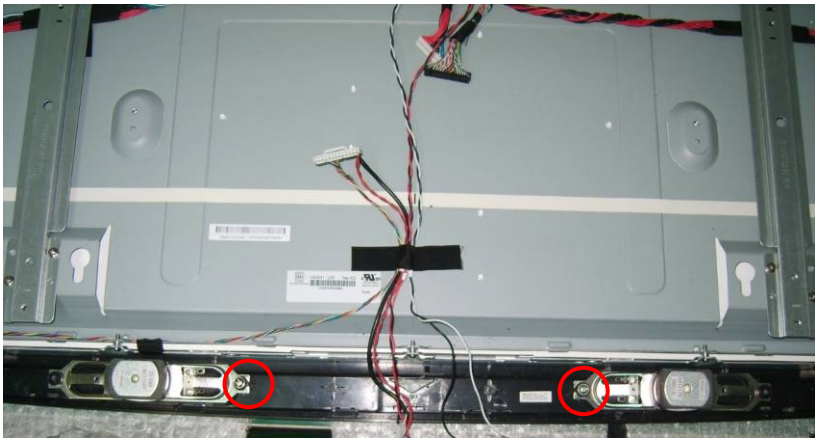
4. Remove main board, power board.



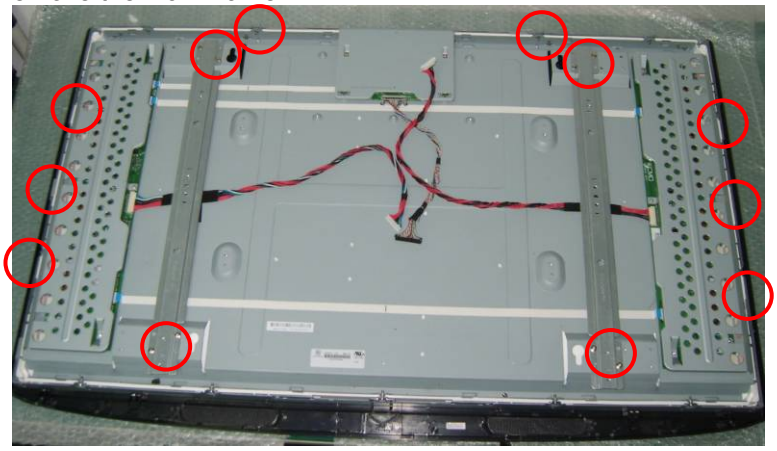
5. Remove the bkt-PCB-holder, remove key board and IR board.



6. Release the speakers.



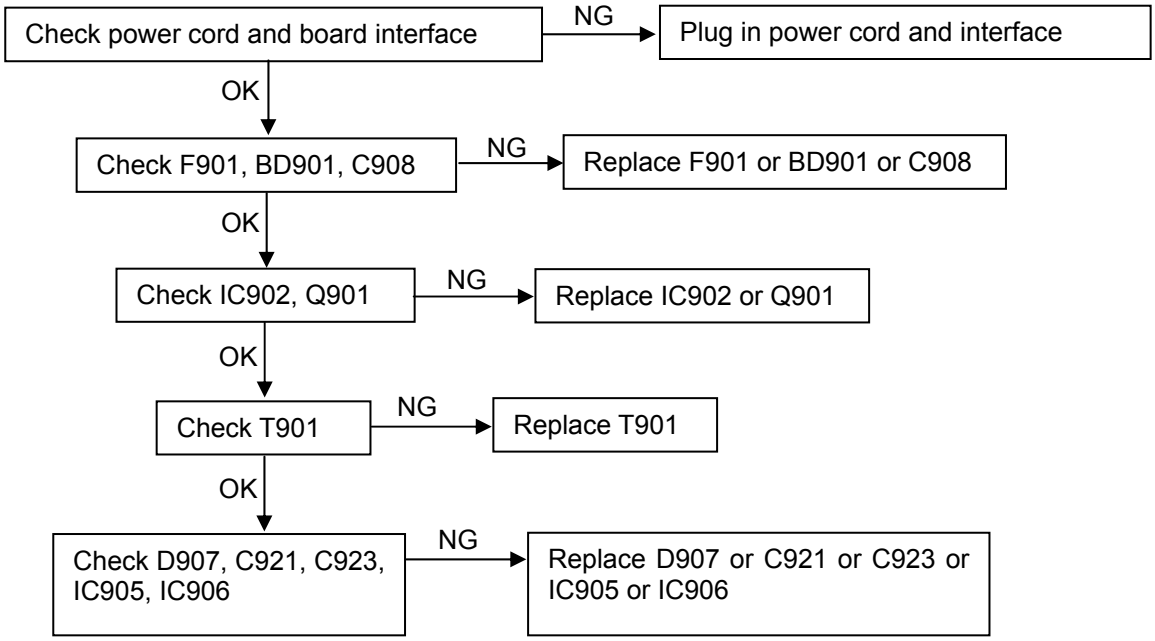
7. Remove 16 screws to remove the main frame.



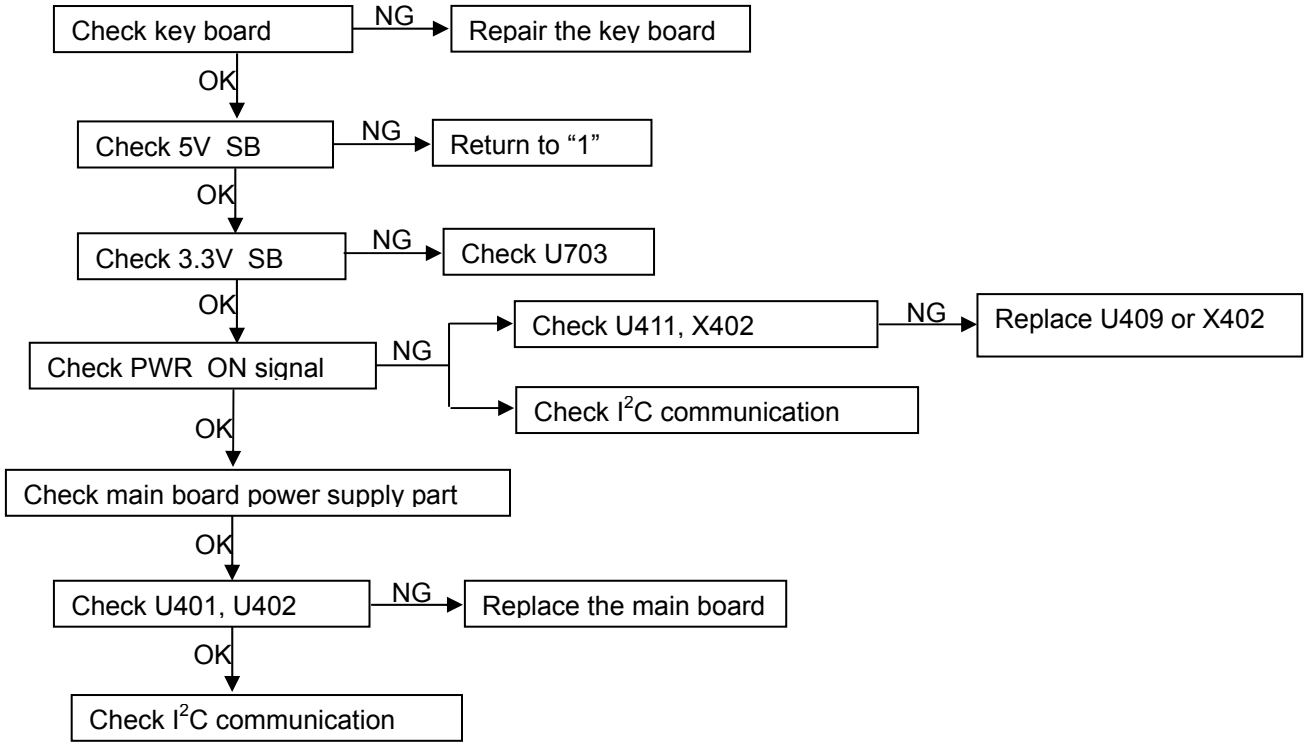
8. Disassembly bezel and panel.

5. Repair Flow Chart

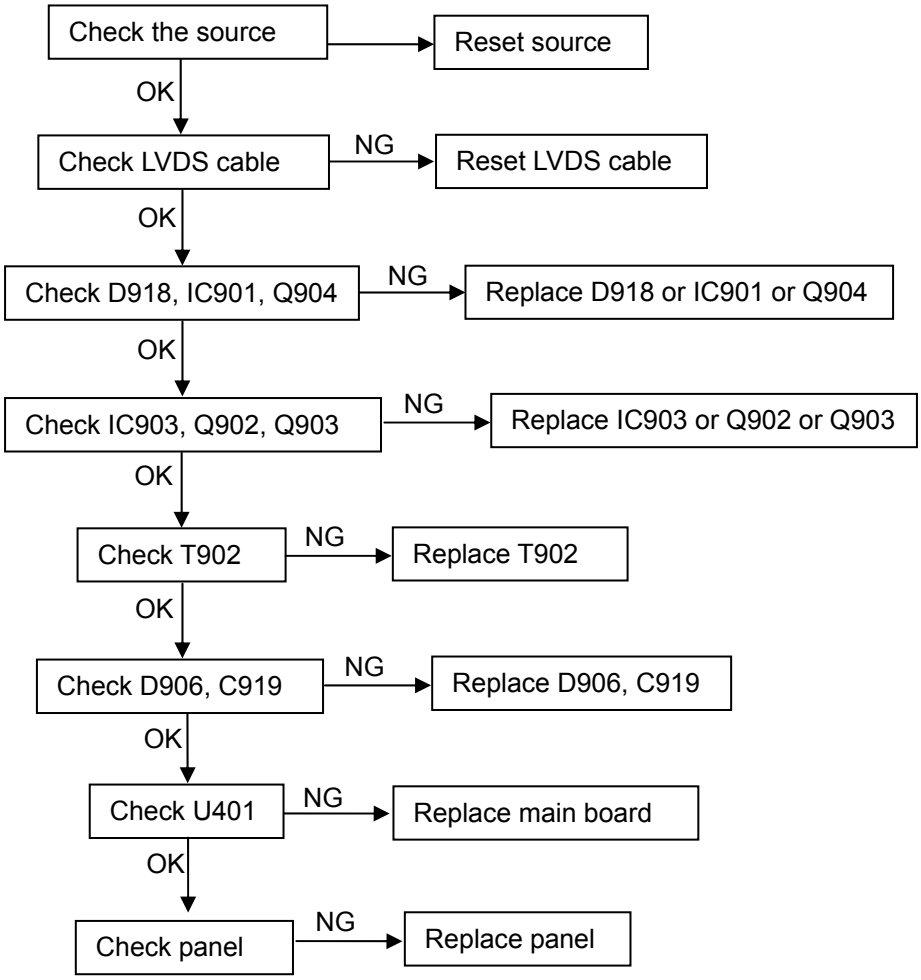
1. No Power (No LED indicator)



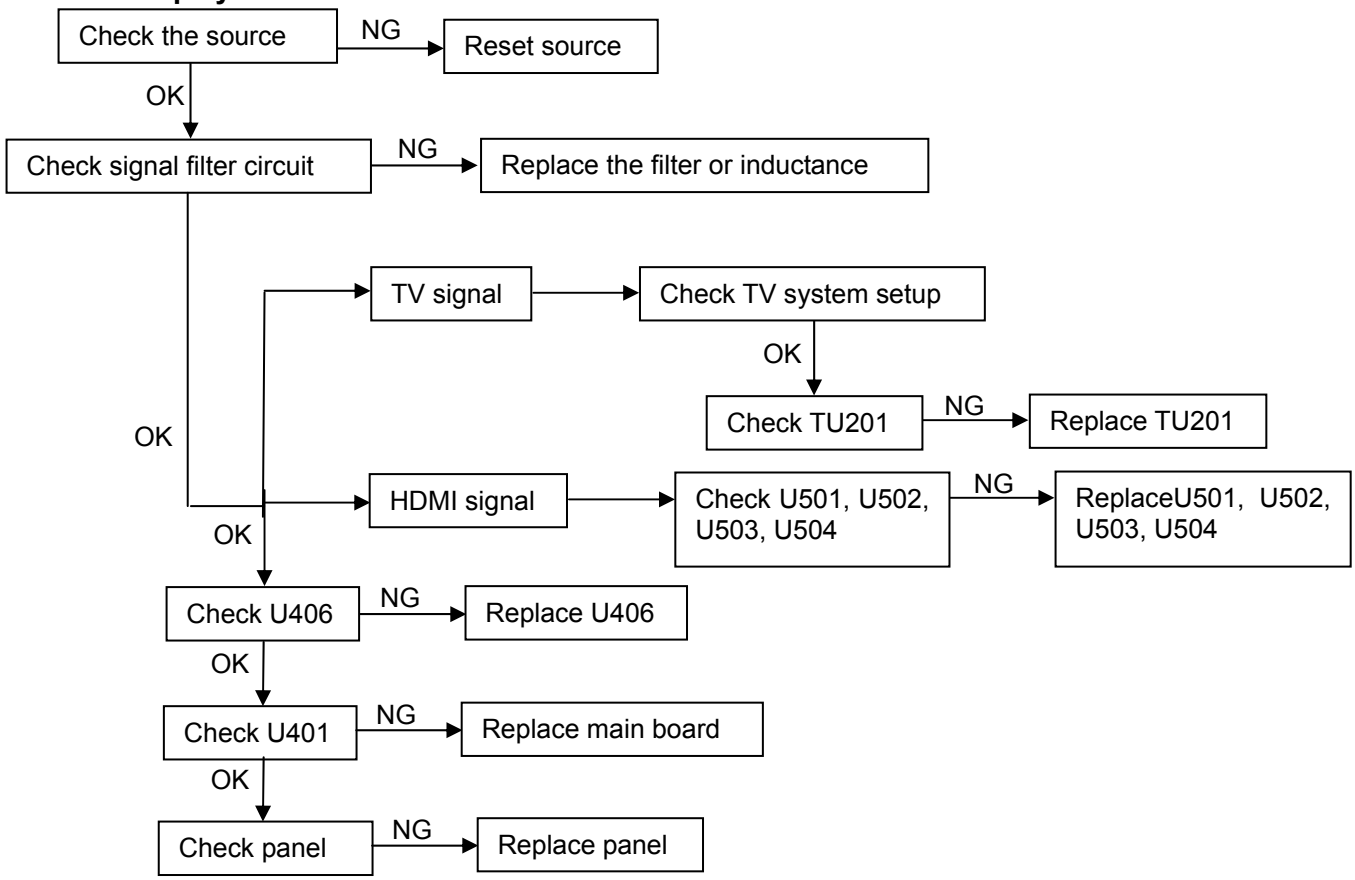
2. Can not start (LED indicator yellow)



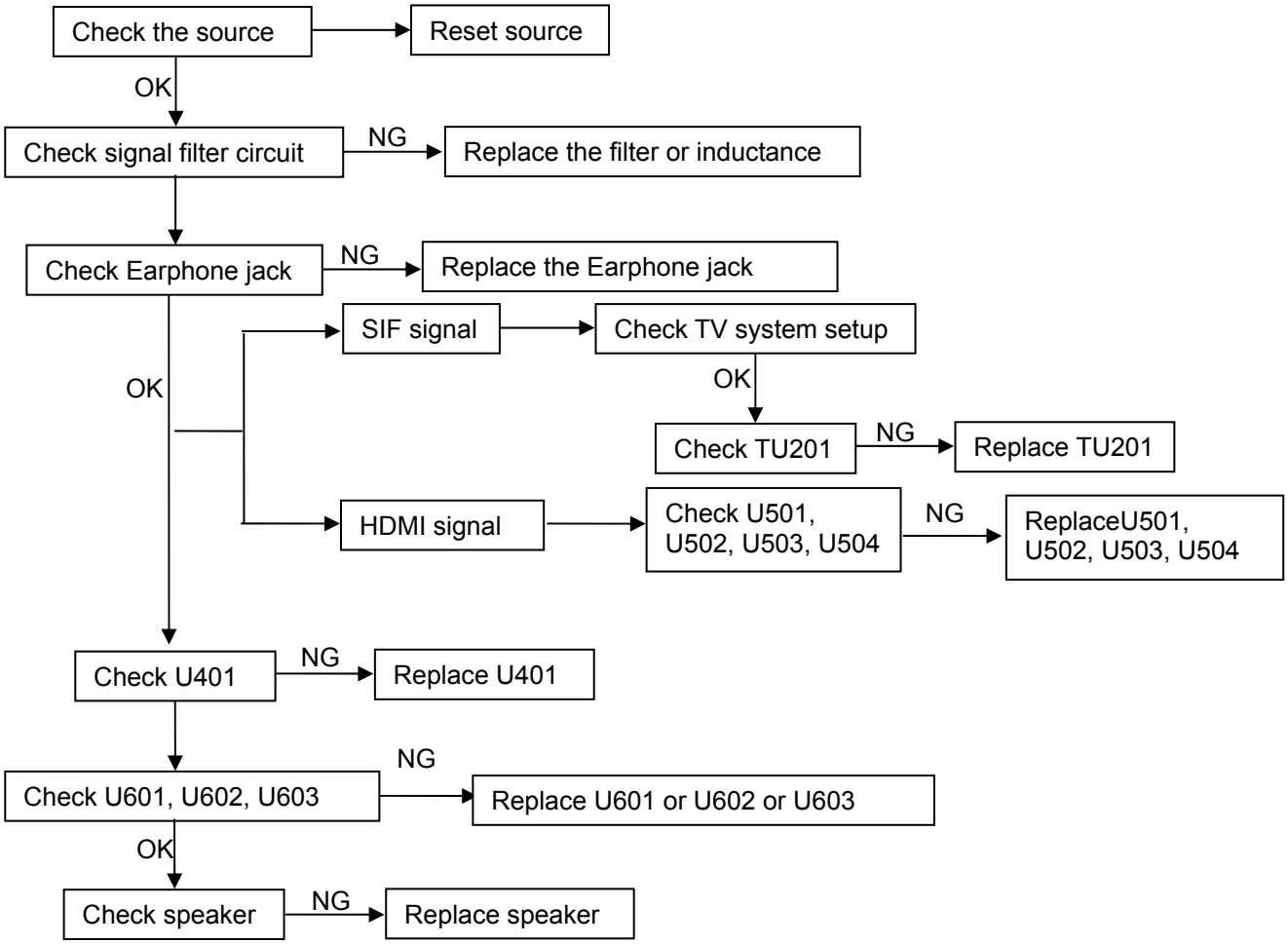
3. No display (LED indicator green)



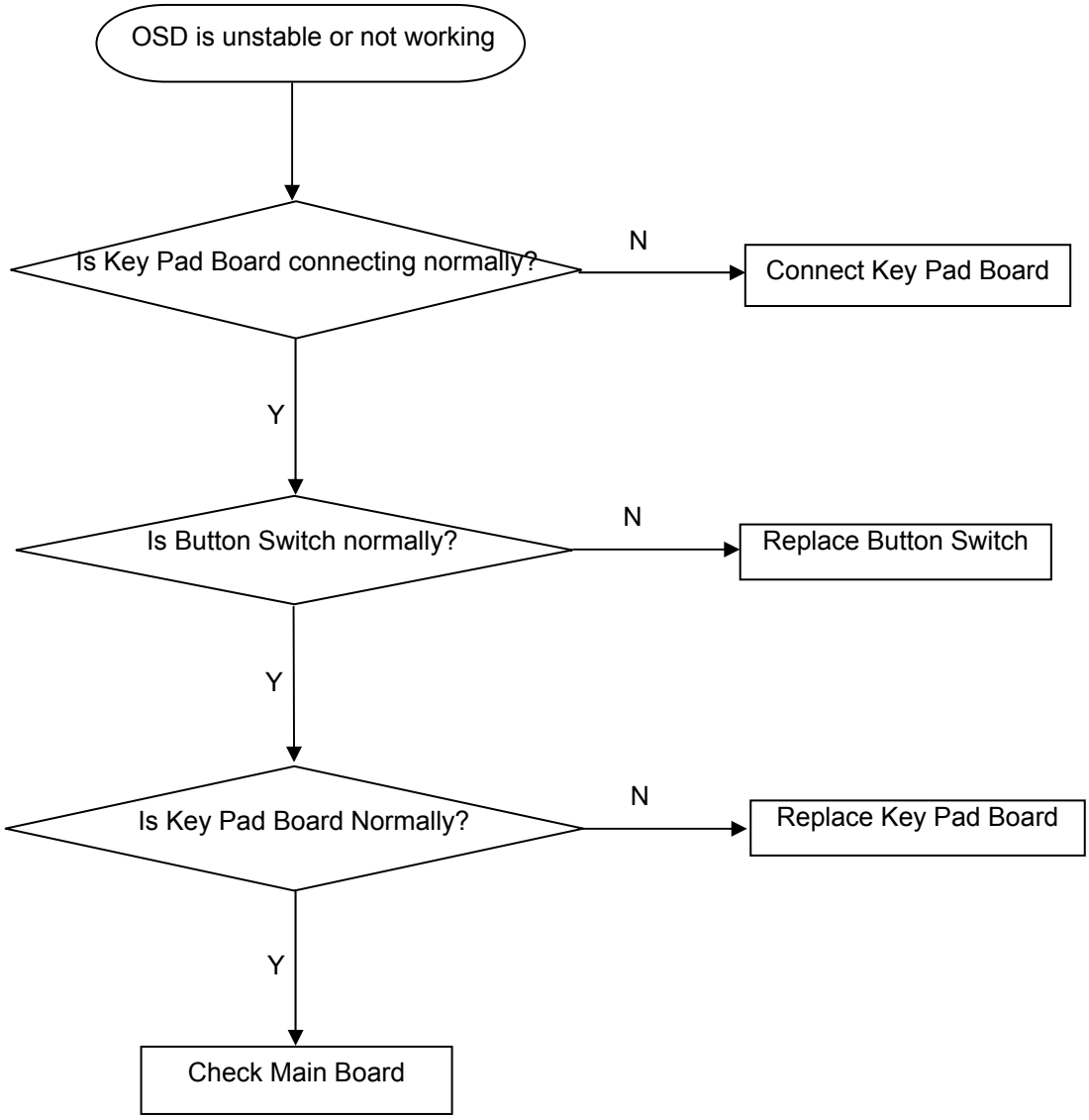
4. Abnormal display



5. No sound

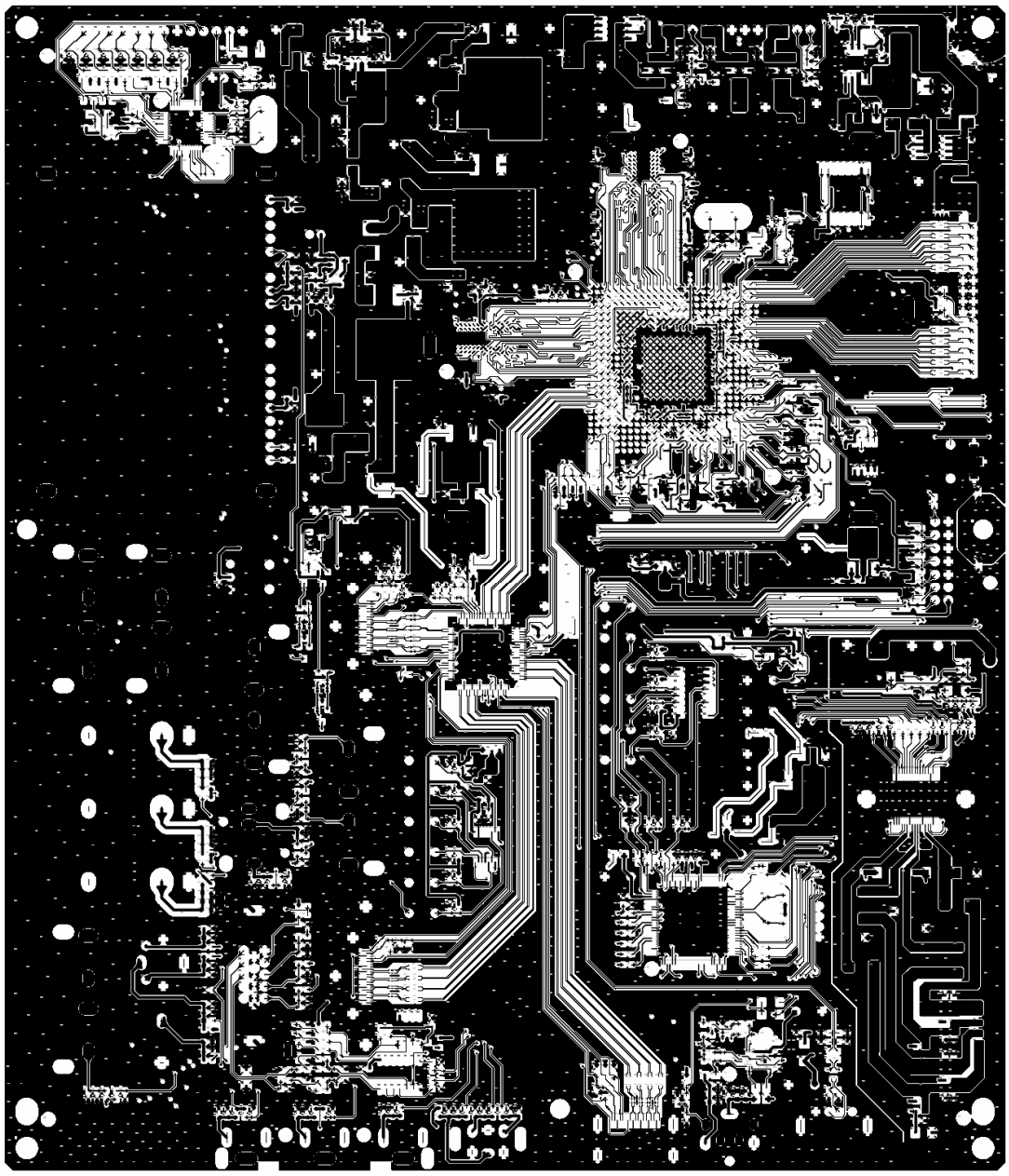

Check the source
Reset source
OK
Check signal filter circuit
NG
Replace the filter or inductance
Check Earphone jack
NG
Replace the Earphone jack
SIF signal
Check TV system setup
OK
OK
Check TU201
NG
Replace TU201
HDMI signal
Check U501,
U502, U503, U504
NG
ReplaceU501,
U502, U503, U504
Check U401
NG
Replace U401
NG
Check U601, U602, U603
Replace U601 or U602 or U603
OK
Check speaker
NG
Replace speaker

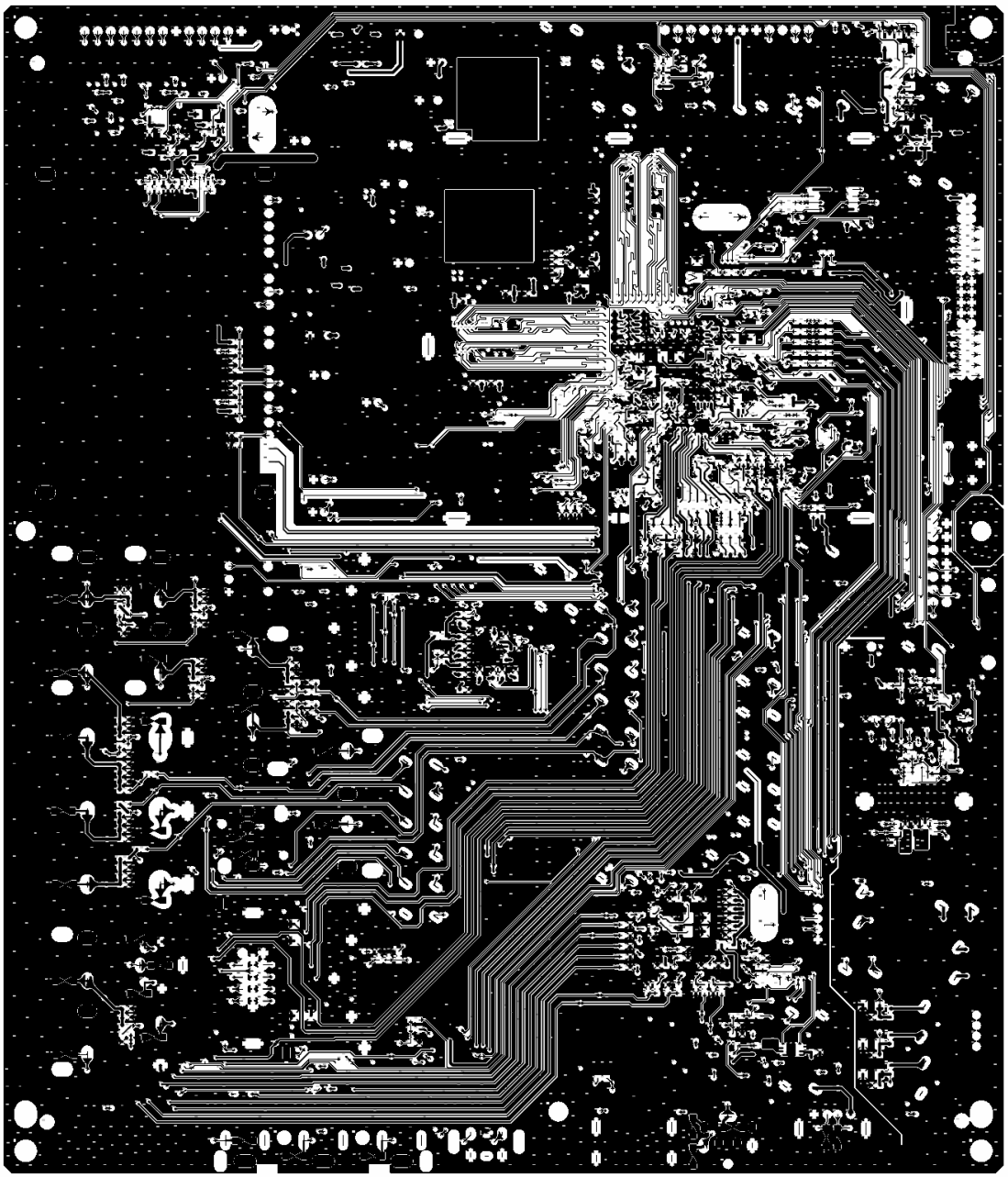
6. Key Board

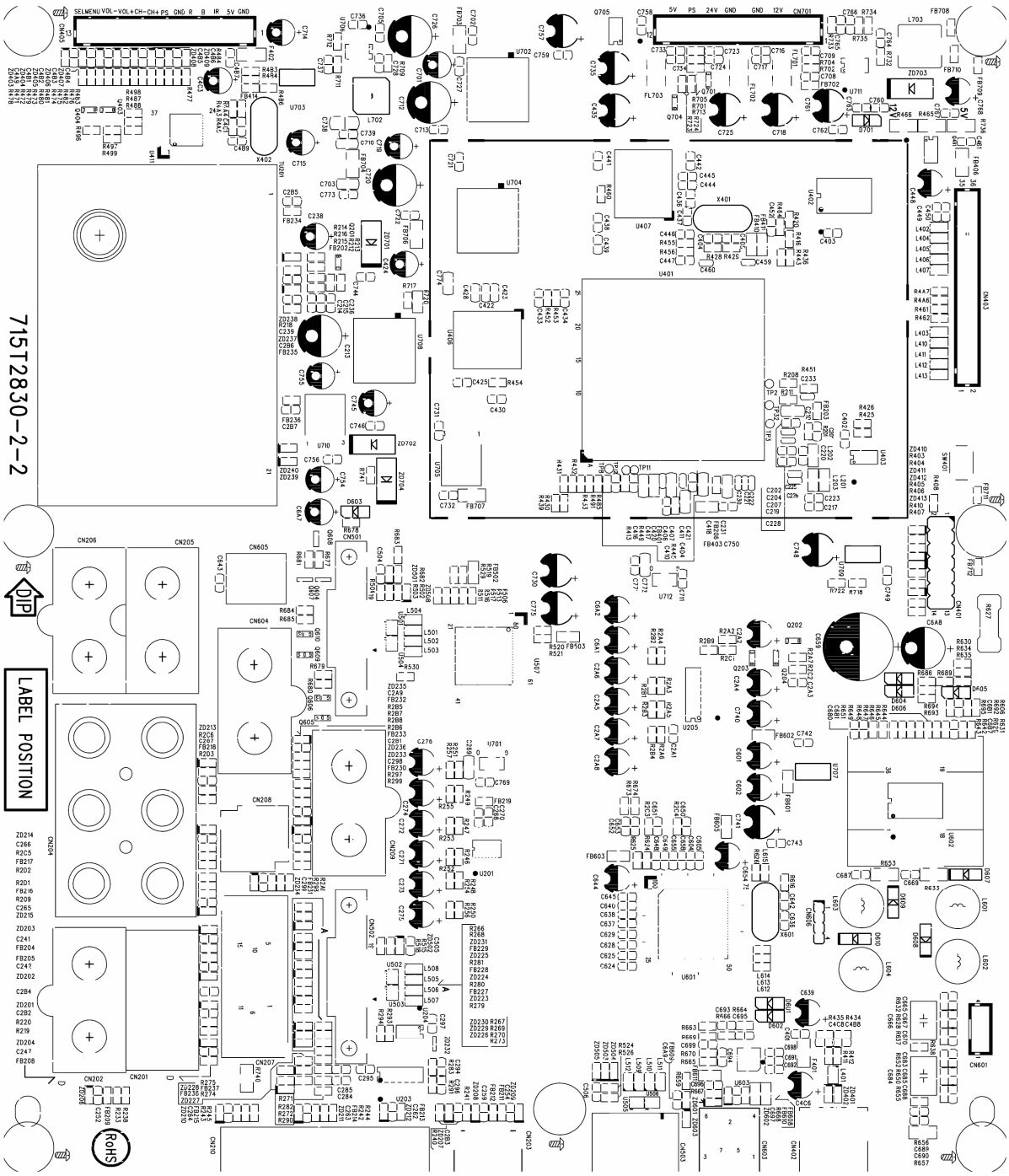

OSD is unstable or not working
Is Key Pad Board connecting normally?
N
Connect Key Pad Board
Y
Is Button Switch normally?
N
Replace Button Switch
Y
Is Key Pad Board Normally?
N
Replace Key Pad Board
Y
Check Main Board

6. PCB Layout

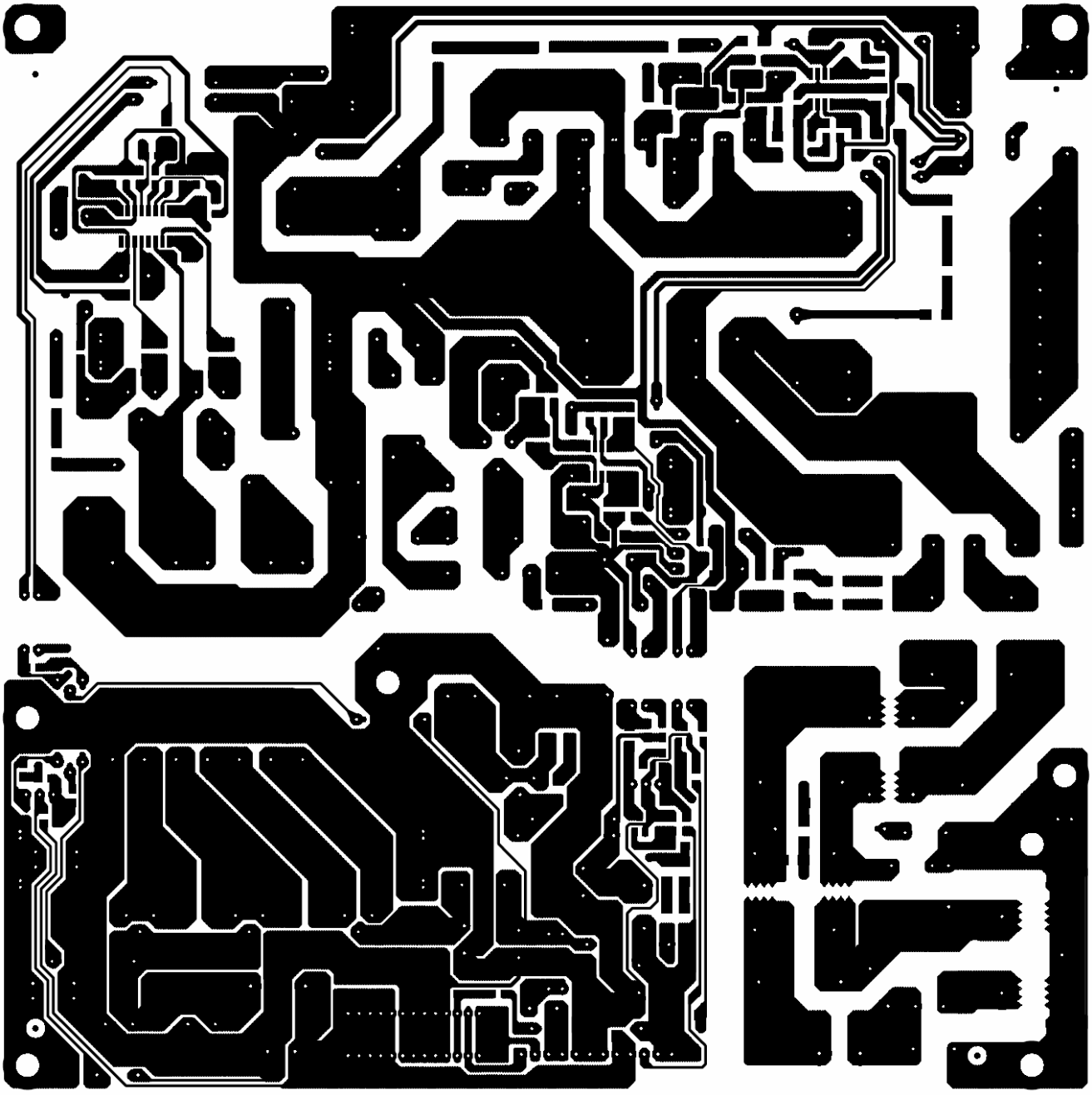
6.1 Main Board

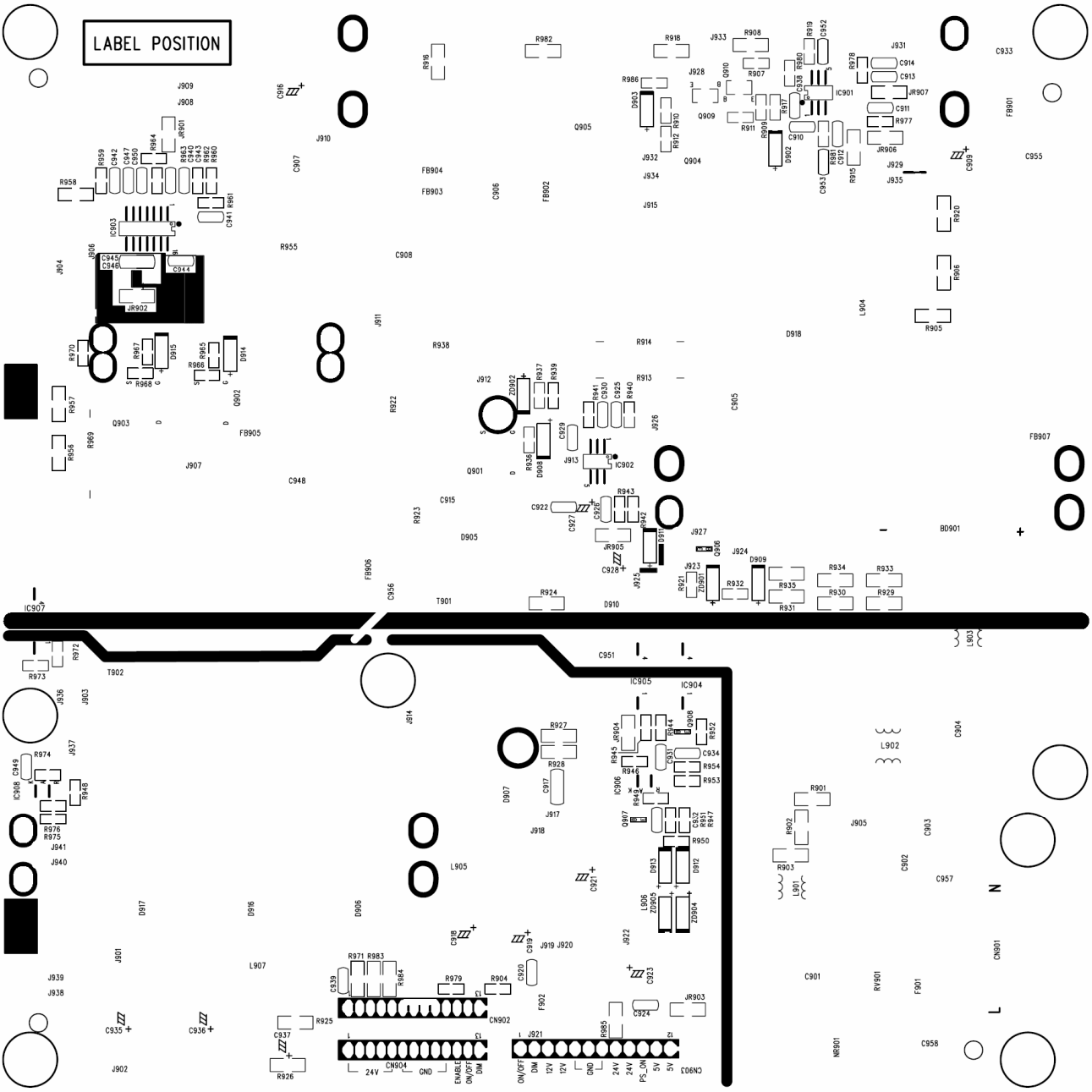


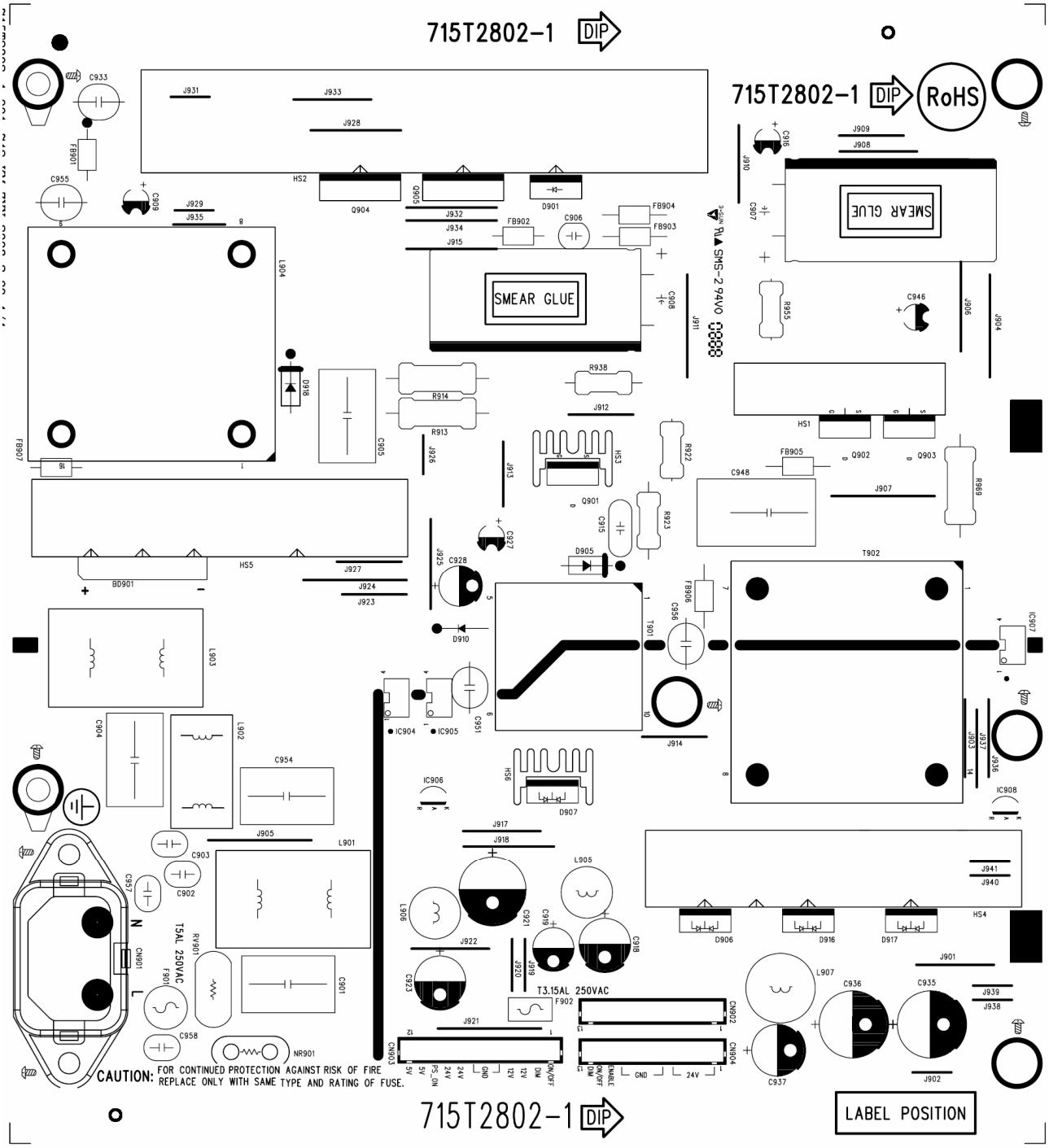



715T2830-2-2
LABEL POSITION

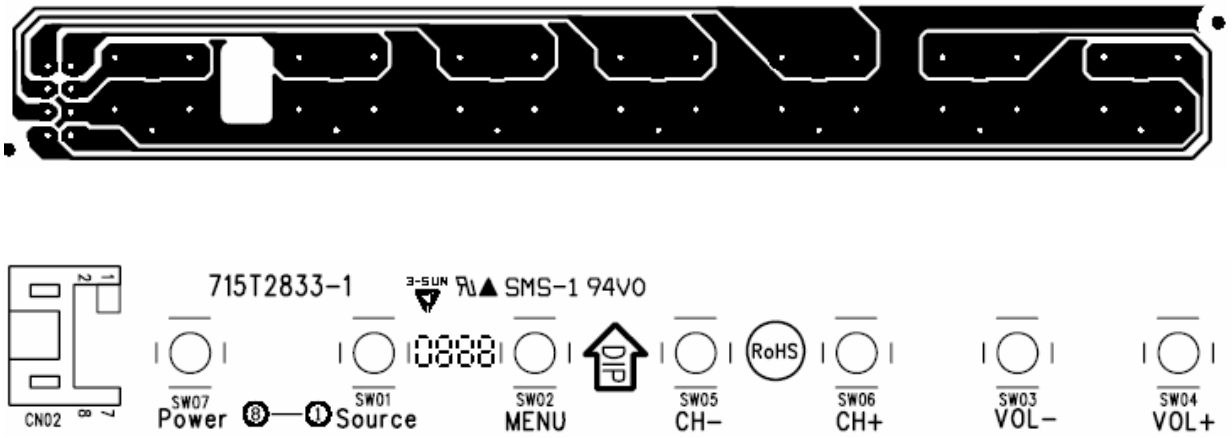
6.2 Power Board



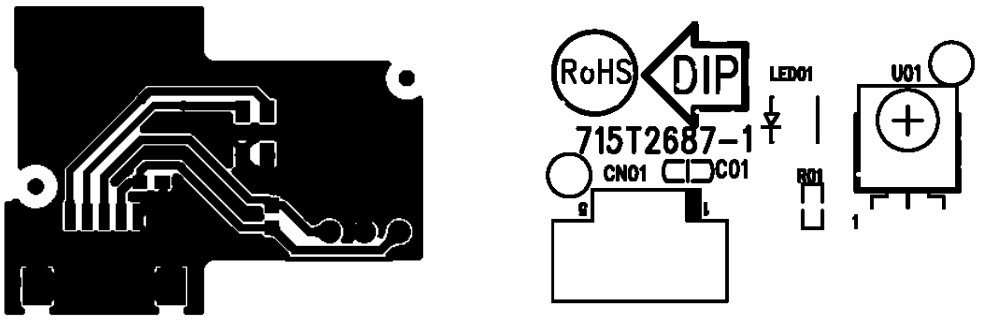

LABEL POSITION
24V
GND
ENABLE
ON/OFF
DIM
ON/OFF
DIM
12V
12V
GND
24V
24V
PS_ON
5V
5V


715T2802-1 DIP
715T2802-1 DIP RoHS
SMEAR GLUE
SMEAR GLUE
T5AL 250VAC
T3.15AL 250VAC
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
715T2802-1 DIP
LABEL POSITION

6.3 Key Board



6.4 IR Board



7. White Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance, please set the Ca210 Channel to 03 Channel and set it's mode to xyLv mode.

Color Temp.		Cold	Normal	Warm
HDMI MODE	x	272	285	313
	y	278	293	329
	Y	Panel max luminance		

Note: The tolerance of the color coordinates should be less than ± 5.

How to setting the Ca210 channel, you can reference to Ca210 user guide or simple use the "Memory CH" up or down to set the channel to 03 channel, and use the "Mode" key to set the mode to xyLv.

Following is the procedure to do white-balance adjust

Note: We can only the HDMI white balance to cover the white balance of all source mode, This method is meet to the Zoran 780 software.

HDMI mode:

Ⅰ. In the TV mode adjust volume to zero, press mute key, then press number key 9 → 8 → 7 → 6. It will achieve the factory mode. Select the item of White Balance and press right key to enter it.

Ⅱ.before to adjust the white balance, please press the factory mode OSD of "Reset" to reset all white balance factory setting.

In the White Balance you can adjust 8 items.

1-3 items is RO, GO, BO → R, G, B Bias adjust.

4-6 items is RG, GG, BG → R, G, B Gain adjust.

7 item is Def_contrast_all_mode adjust

8 item is Def_brightness_all_mode adjust

9 item is Colortemp_all_Mode adjust

10 item is color temperature select: Cool, Normal, and Warm.

Ⅲ. Gain adjustment:

A. Adjust Cool color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 to min luminance.
2. Switch the Ca210 to xyLv-mode (with press "MODE" button)
3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)
4. The LCD-indicator on Ca210 will show x =272, y =278, Lv can adjust to max luminance.
5. Use the item 1 and item 3 to Adjust black balance :use 30 IRE(Pattern 115) signal,and adjust the black balance,until the Ca210 show x =272, y =278.
6. Use the item 4 and item 6 to adjust white balance: use 100 IRE (Pattern 105) signal, and adjust the white balance,

until the Ca210 show x =272, y =278.

7. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

8. Enter the item 10 to select another color temperature to adjust.

B. Adjust Normal color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 Cool color-temperature's item 8 value.

2. Switch the Ca210 to T△uvLv-mode (with press "MODE" button)

3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)

4. The LCD-indicator on Ca210 will show T=9300.

5. Adjust the 9 item: Colortemp_All_Mode_Normal, until Ca210 indicator reached the value T=9300

6. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

7. Loop the Item 5 and Item 6, until the T=9300 and RG/BG is saturation

8. Enter the 8 item to select another color temperature to adjust.

C. Adjust Warm color-temperature:

1. Set the pattern generator to pattern 104 or 0 IRE pattern. And adjust the Item 8 Cool color-temperature's item 8 value.

2. Switch the Ca210 to T△uvLv-mode (with press "MODE" button)

3. Switch the Ca210 channel to Channel 03 (with up or down "MEMORY CH" button)

4. The LCD-indicator on Ca210 will show T=6500.

5. Adjust the 9 item: Colortemp_All_Mode_warm, until Ca210 indicator reached the value T=6500

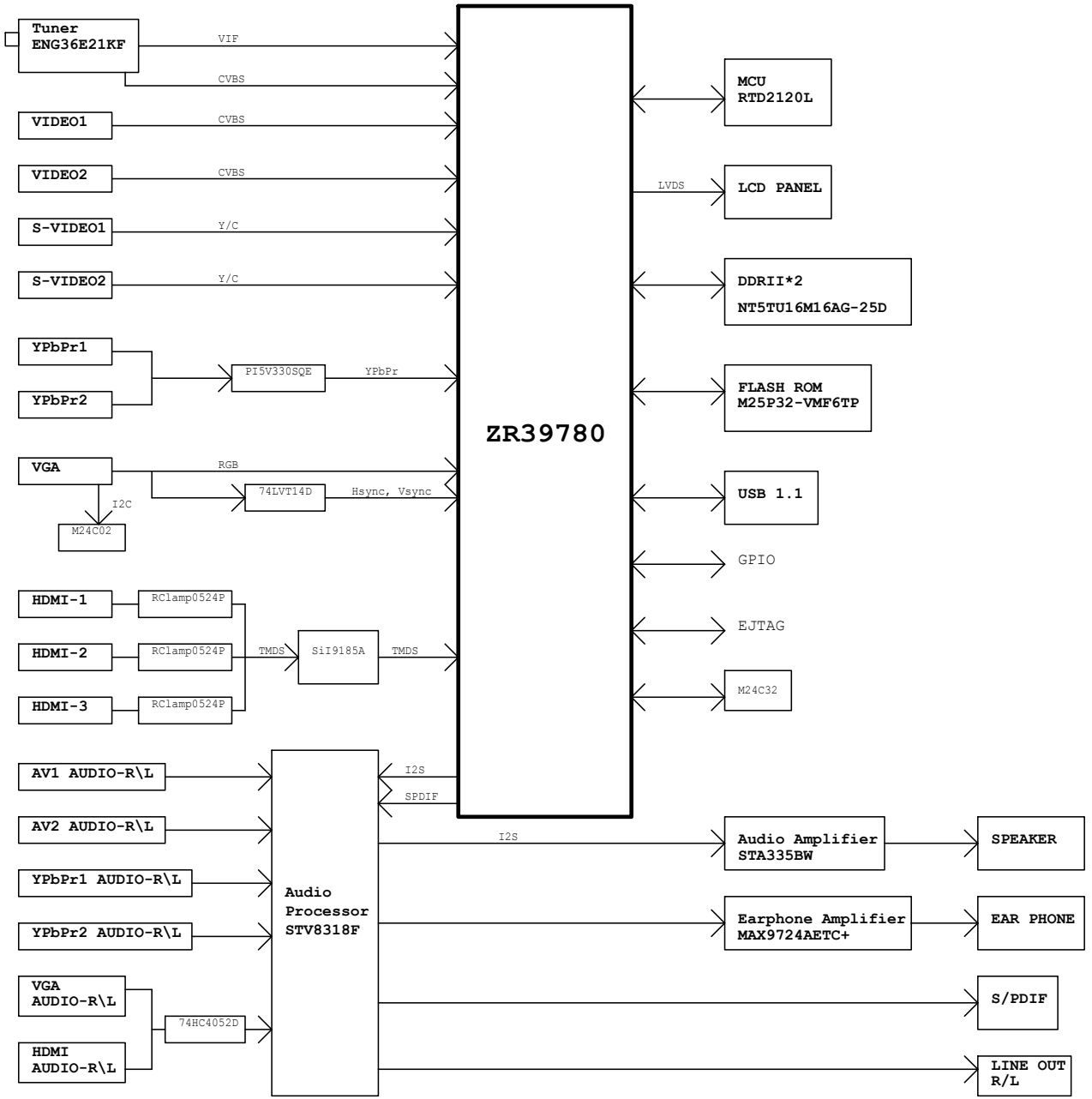
6. Adjust item 7 to check color temperature is saturation or not: Add by 7 steps and then to adjust the item 4 and item 6 to check the color temperature is saturation or not, until is saturation.

7. Loop the Item 5 and Item 6, until the T=6500 and RG/BG is saturation

8. Enter the 8 item to select another color temperature to adjust.

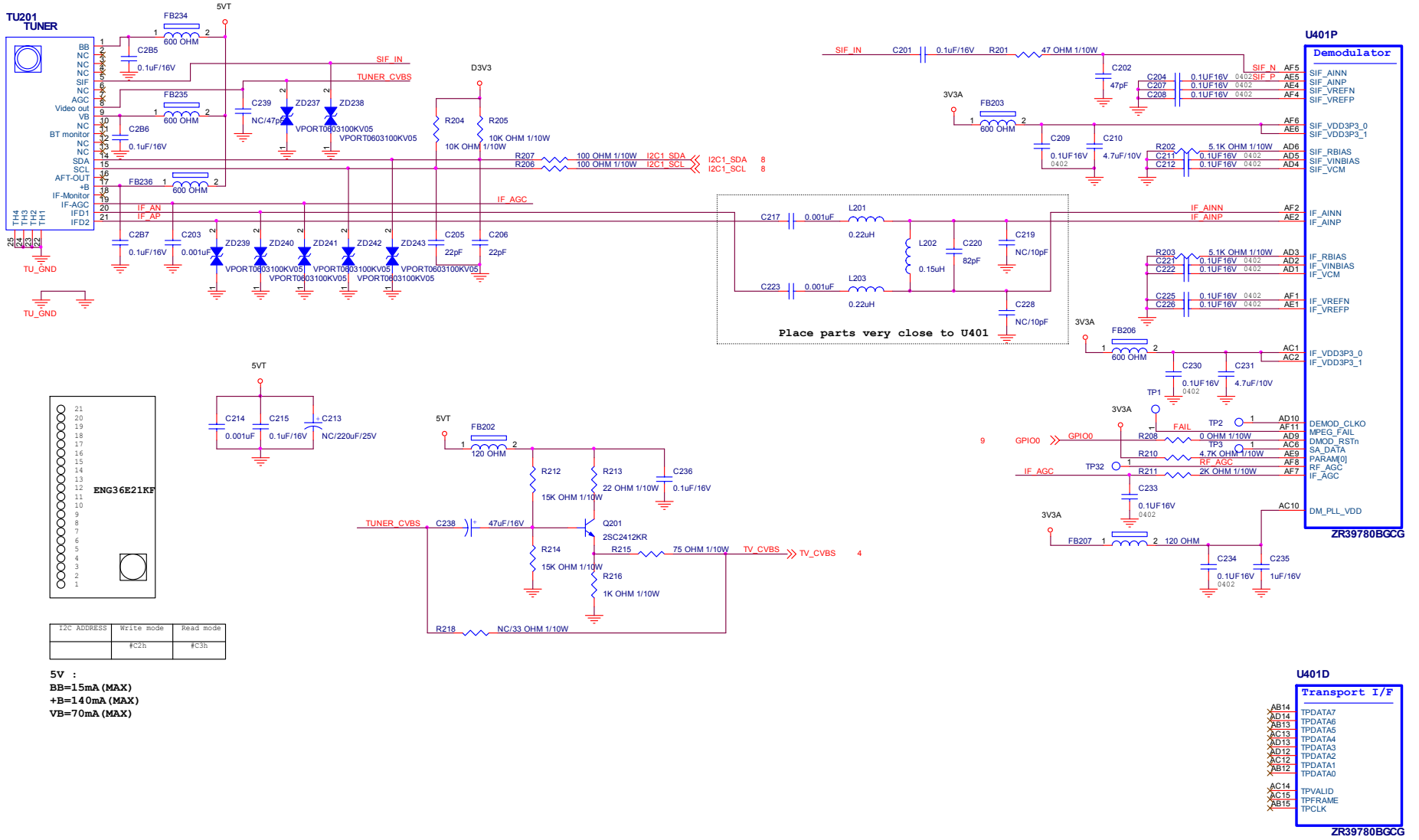
Press "Exit" button on remote control to quit from factory mode.

8. Block Diagram



9. Schematic Diagram

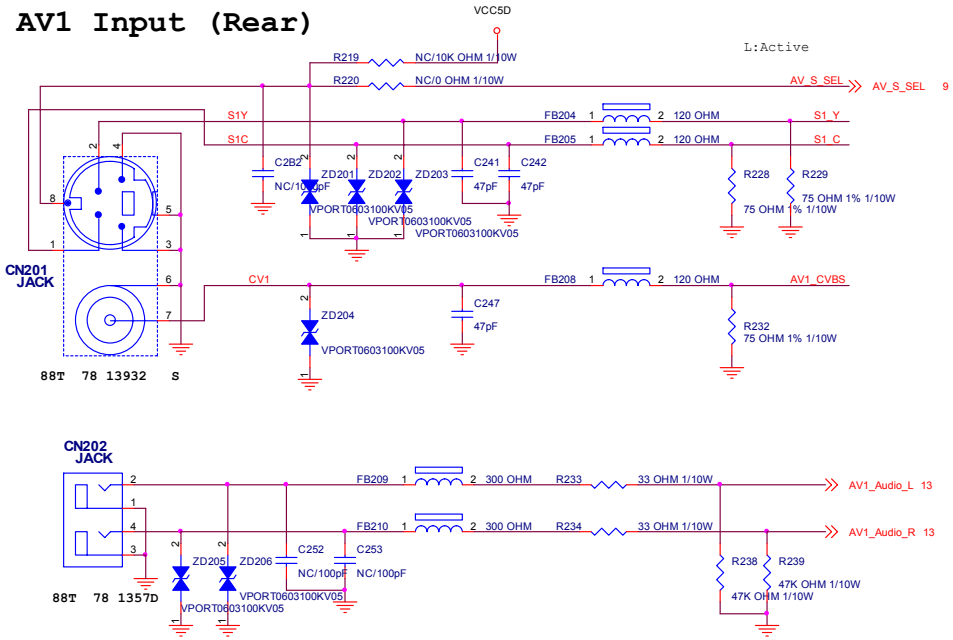
9.1 Main Board

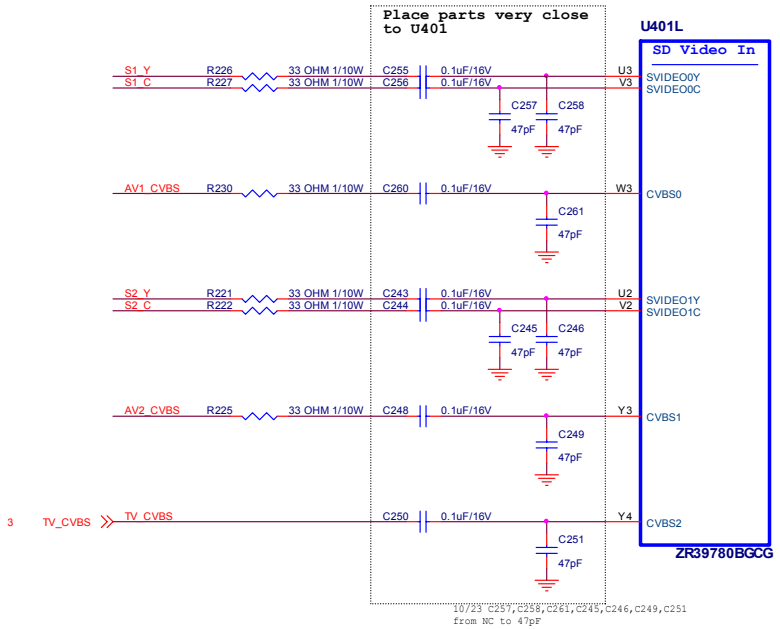


I2C ADDRESS	Write mode	Read mode
	#C2h	#C3h

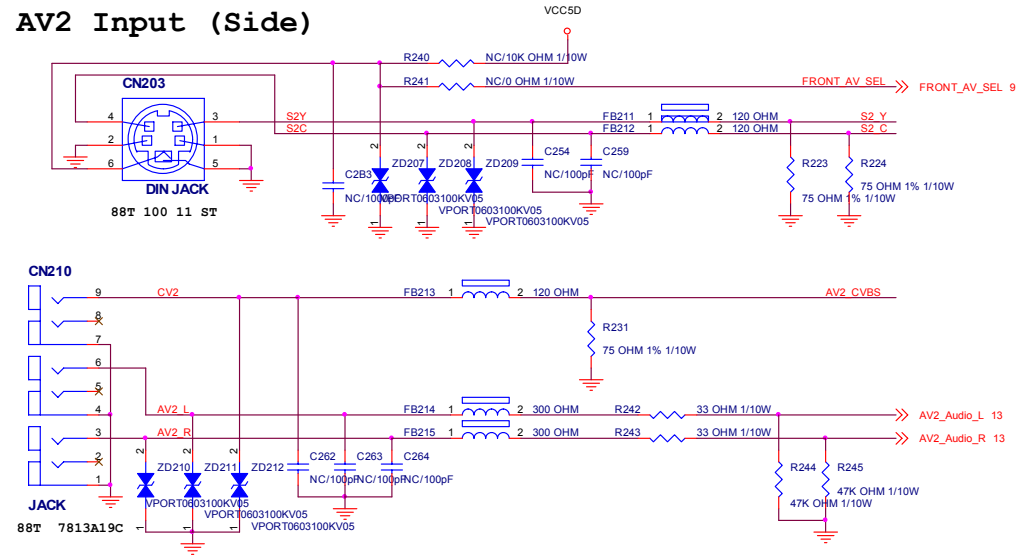
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 鎖 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	03-Tuner	PCB NAME	715T2830	称爹	<称爹>
Date	Monday, March 03, 2008	Sheet	3 of 18		

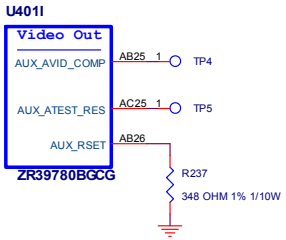
AV1 Input (Rear)



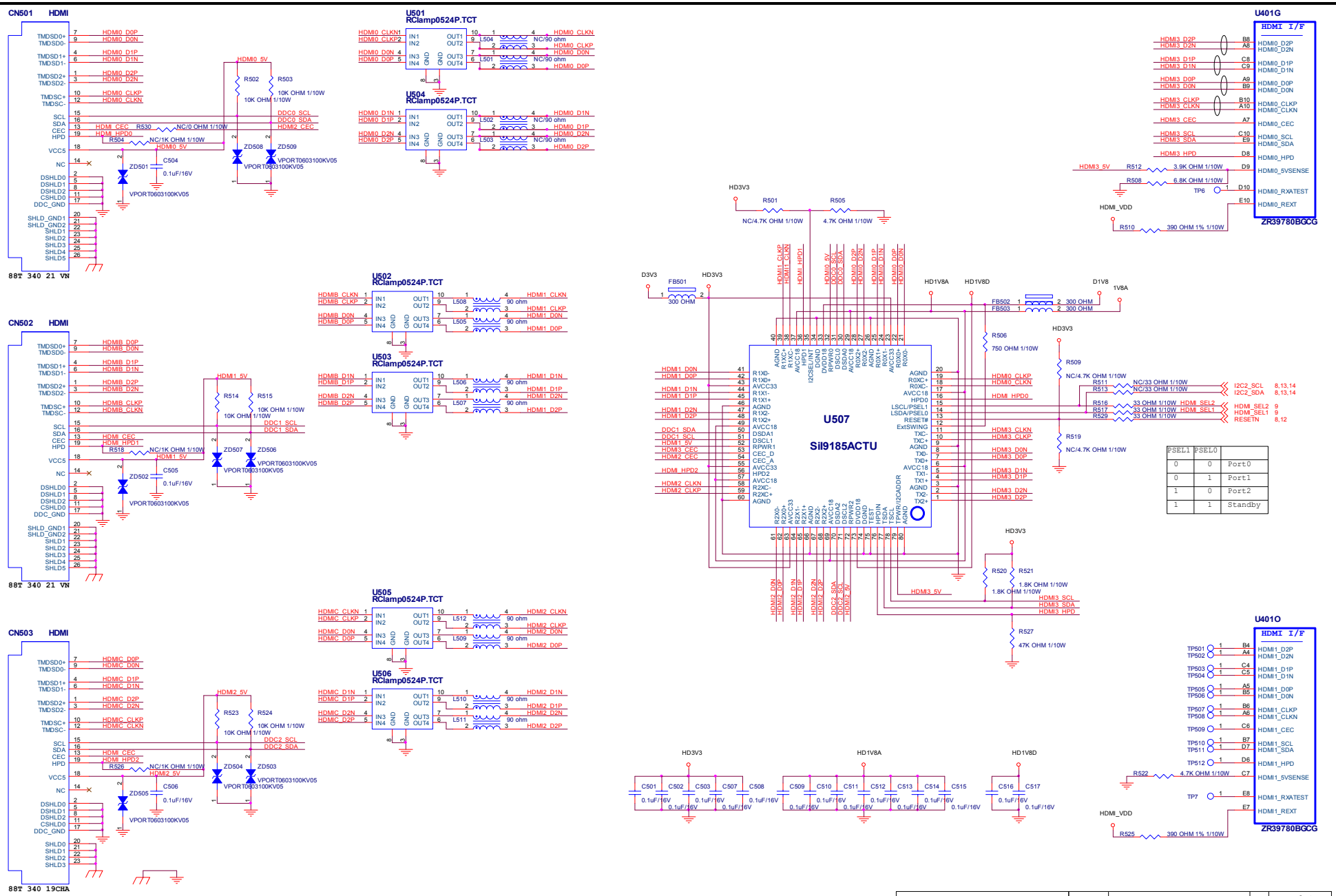

Place parts very close to U401
U401L
SD Video In
S1_Y R226 33 OHM 1/10W C255 0.1uF/16V U3 SVIDEO0Y
S1_C R227 33 OHM 1/10W C256 0.1uF/16V V3 SVIDEO0C
C257 47pF C258 47pF
AV1_CVBS R230 33 OHM 1/10W C260 0.1uF/16V W3 CVBS0
C261 47pF
S2_Y R221 33 OHM 1/10W C243 0.1uF/16V U2 SVIDEO1Y
S2_C R222 33 OHM 1/10W C244 0.1uF/16V V2 SVIDEO1C
C245 47pF C246 47pF
AV2_CVBS R225 33 OHM 1/10W C248 0.1uF/16V Y3 CVBS1
C249 47pF
3 TV_CVBS TV_CVBS C250 0.1uF/16V Y4 CVBS2
C251 47pF
ZR39780BGCG
10/23 C257,C258,C261,C245,C246,C249,C251 from NC to 47pF

AV2 Input (Side)



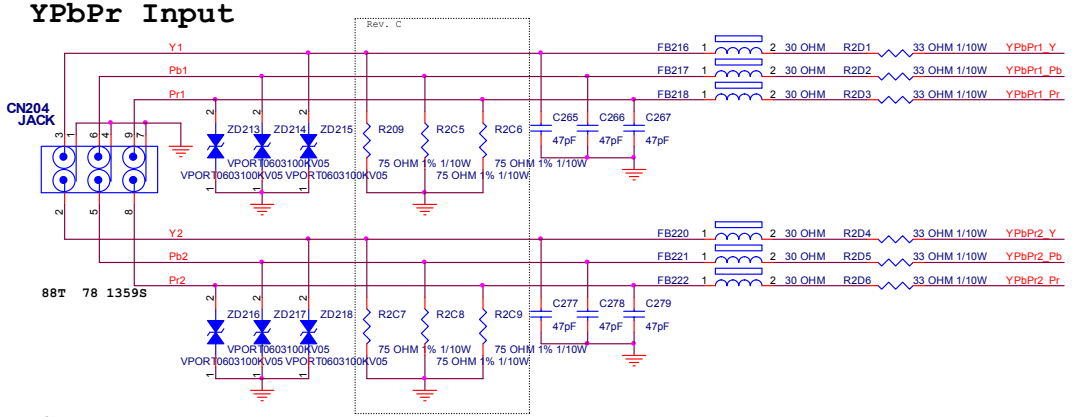


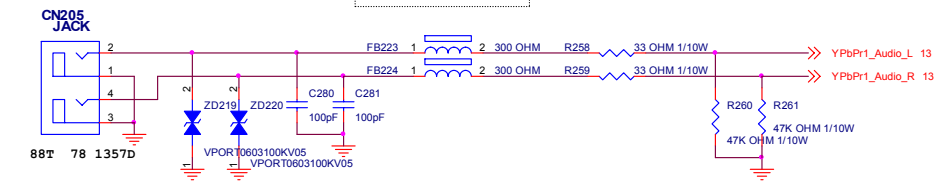
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 銀 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	04-AV Input	PCB NAME	715T2830	称爹	<称爹>
Date	Monday, March 03, 2008	Sheet	4 of 18		

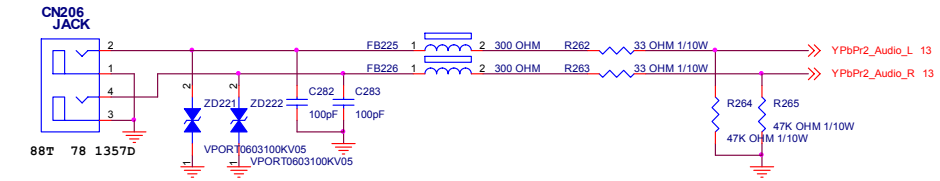


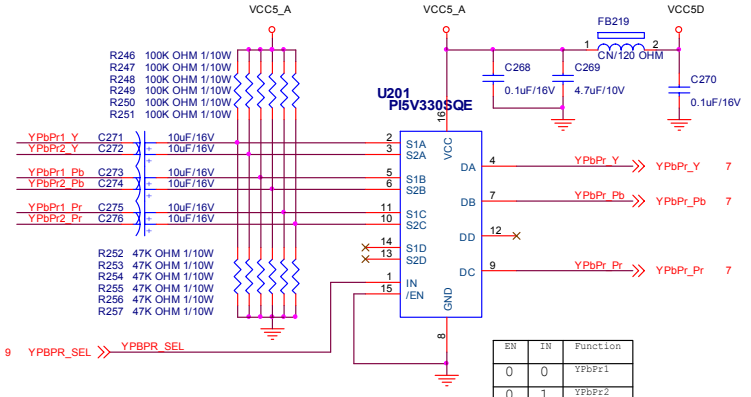
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL X	Size	Custom
研發單位 T2830-D-2-X-1-080211	TPV MODEL X	Rev	B
Key Component 05-HDMI Input	PCB NAME 715T2830	客戶	<客戶>
Date Monday, March 03, 2008	Sheet 5 of 18		

YPbPr Input

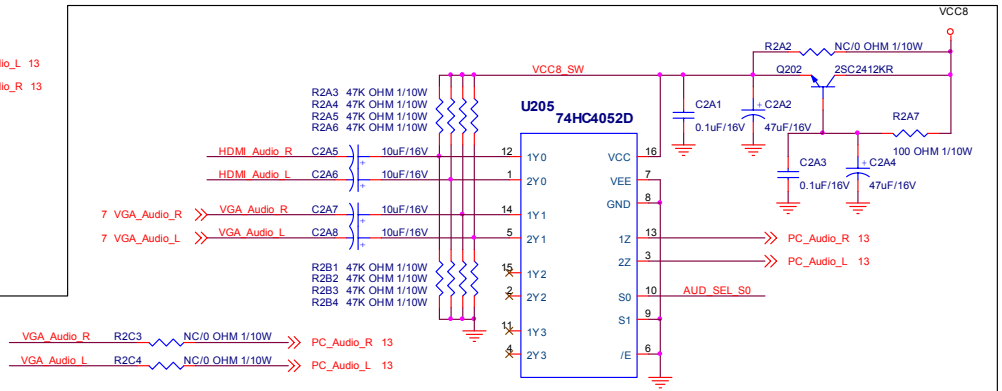




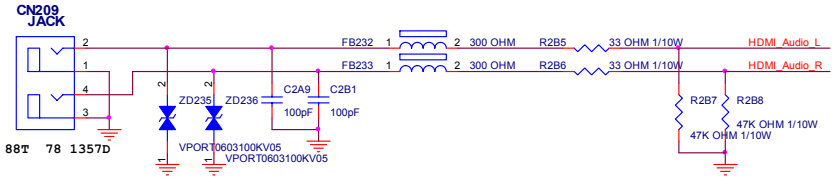


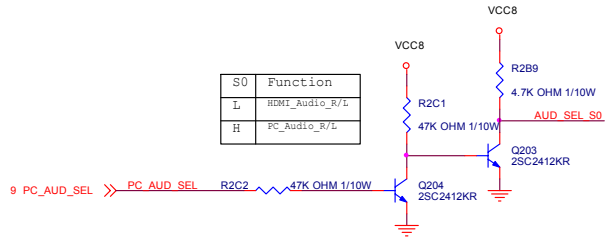


EN	IN	Function
0	0	YPbPr1
0	1	YPbPr2
1	x	Disabled



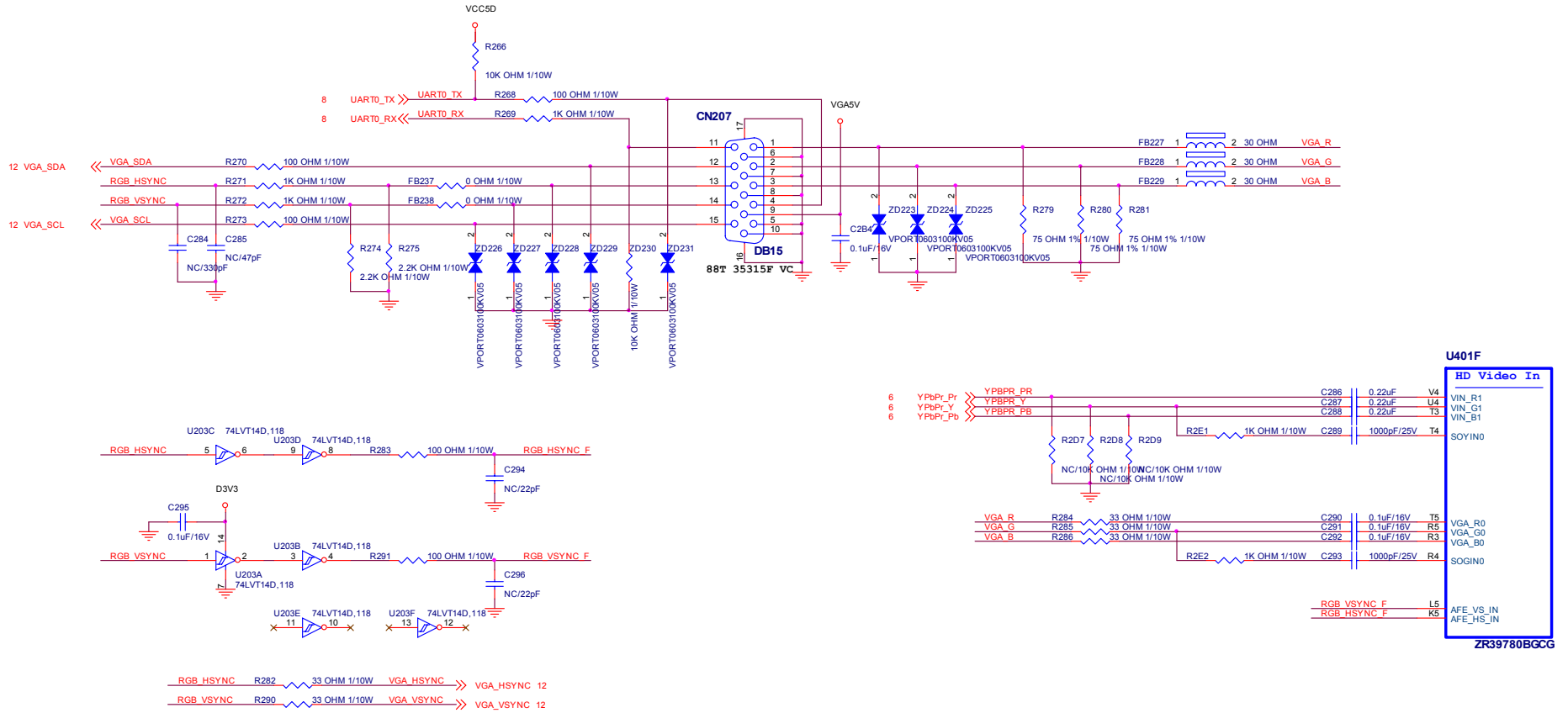
HDMI Audio Input(DVI mode)

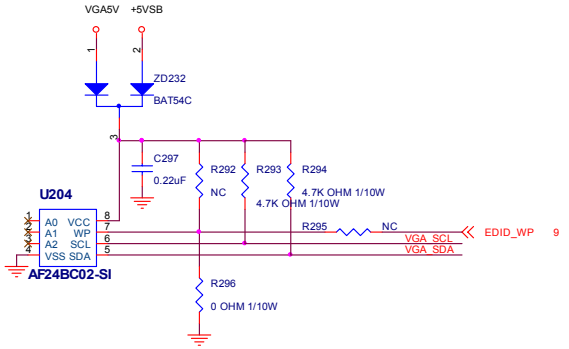




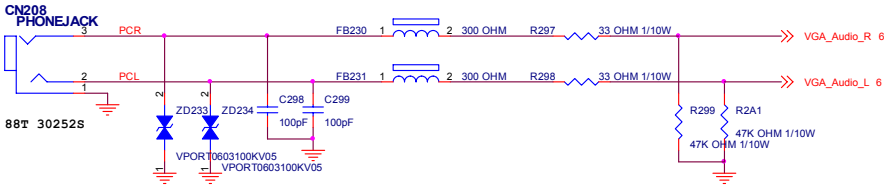
S0	Function
L	HDMI_Audio_R/L
H	PC_Audio_R/L

T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 鎖 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	06-YPbPr Inputs	PCB NAME	715T2830	称多	<称多>
Date	Monday , March 03, 2008	Sheet	6 of 18		

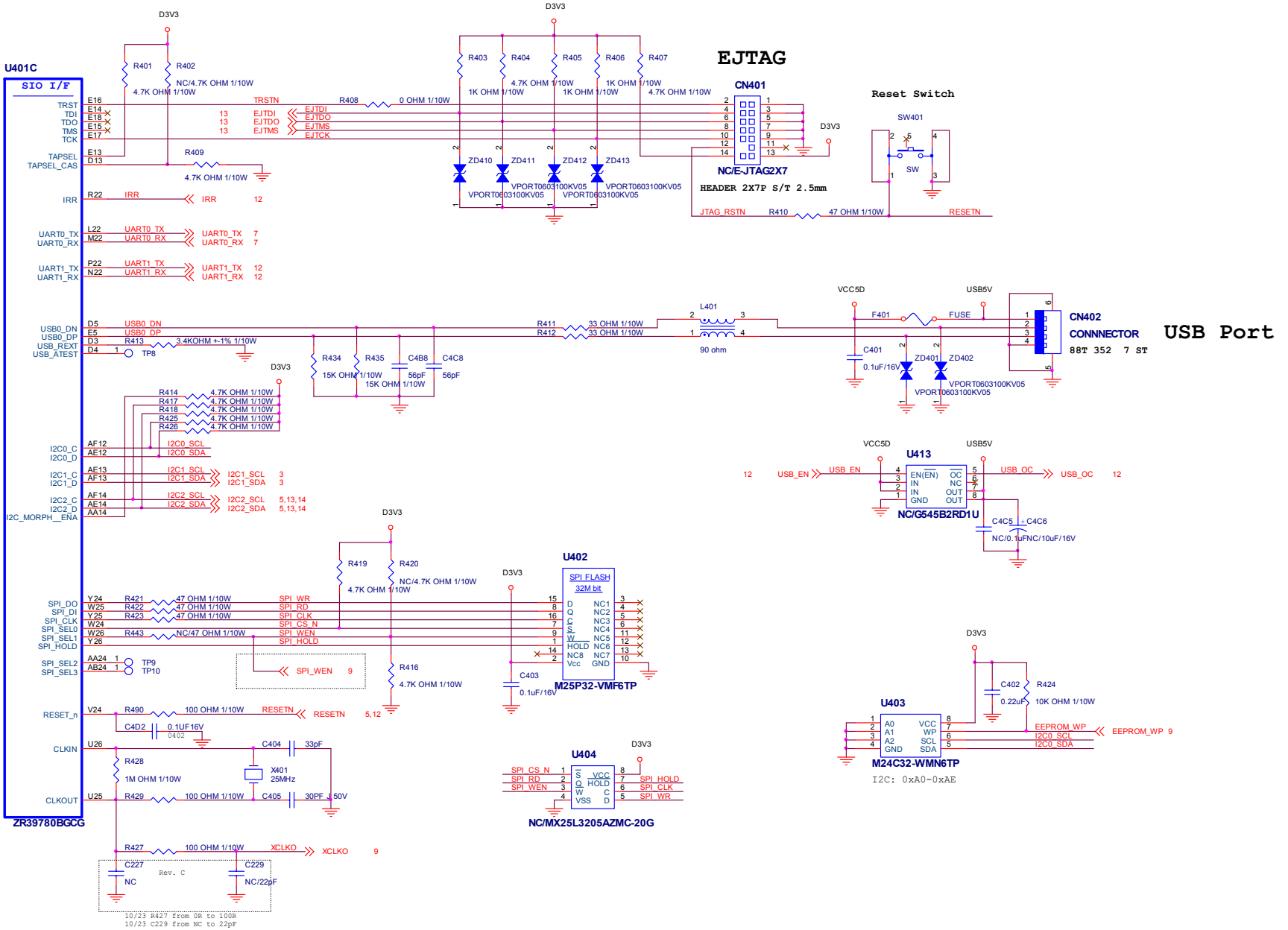




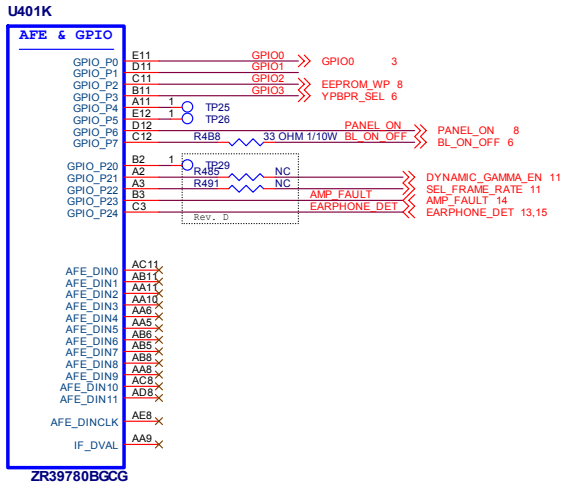
VGA Audio Input



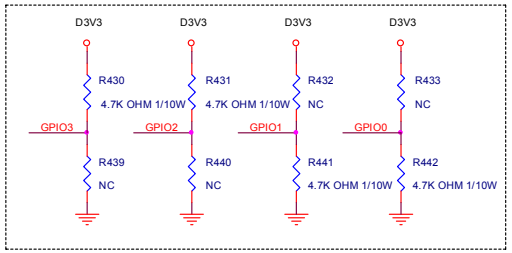
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
結 陽 瓜 鋼 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	06-VGA Input	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday, March 03, 2008	Sheet	7 of 18		



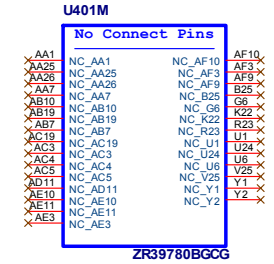
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 旗 服	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	08-SIO I/F	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday , March 03, 2008	Sheet	8 of 18		

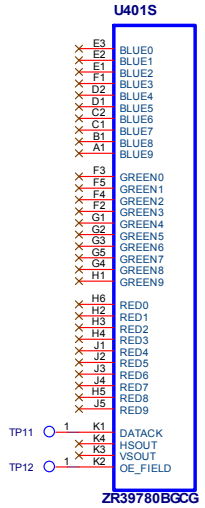


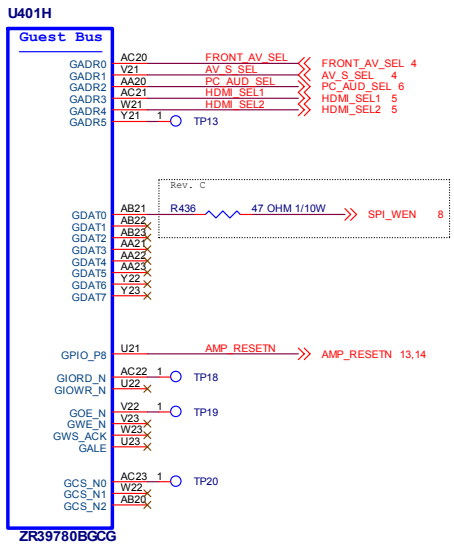
Bootstrap Configuration

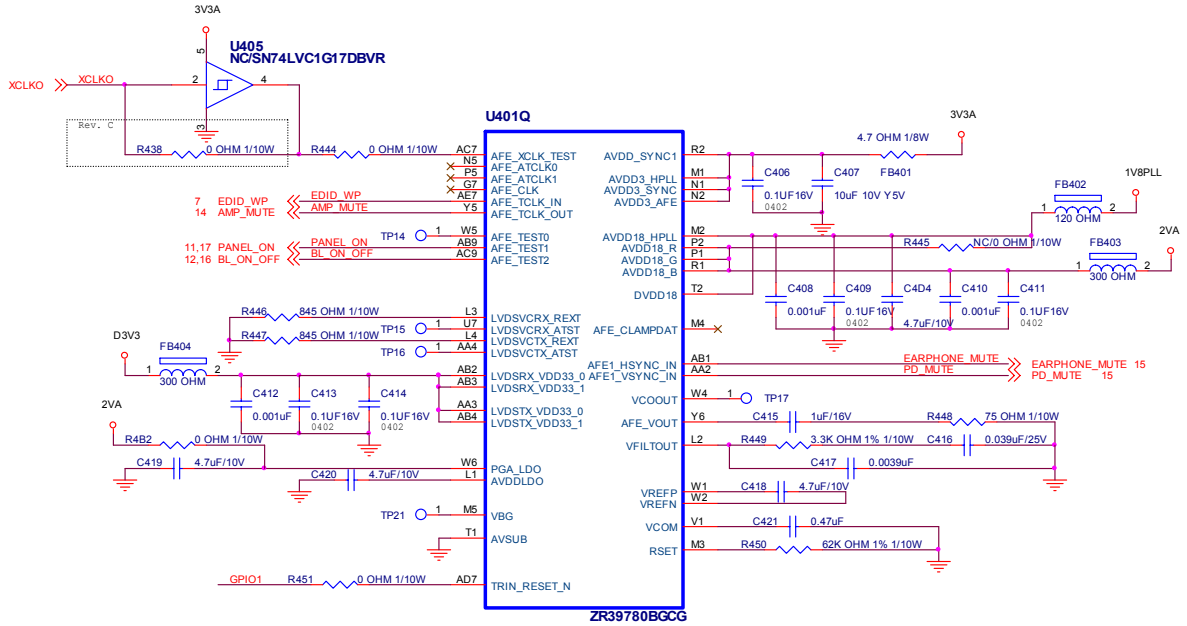


Boot Option	GPIO3	GPIO2	GPIO1	GPIO0
16-Bit NAND-Small Page	1	0	1	1
SPI	1	1	0	0
8-Bit NAND-Large Page	1	1	0	1
8-Bit NAND-Small Page	1	1	1	1

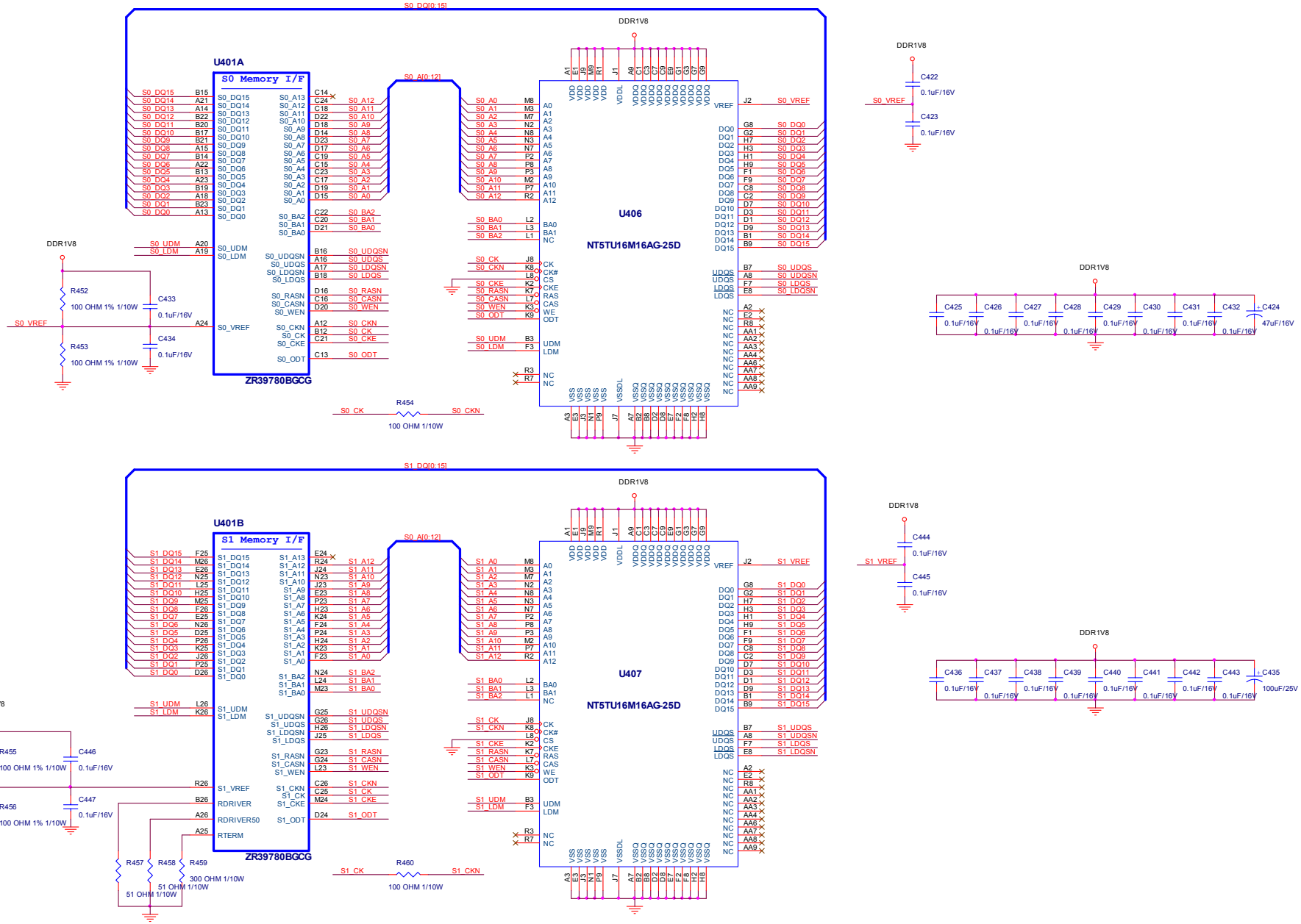




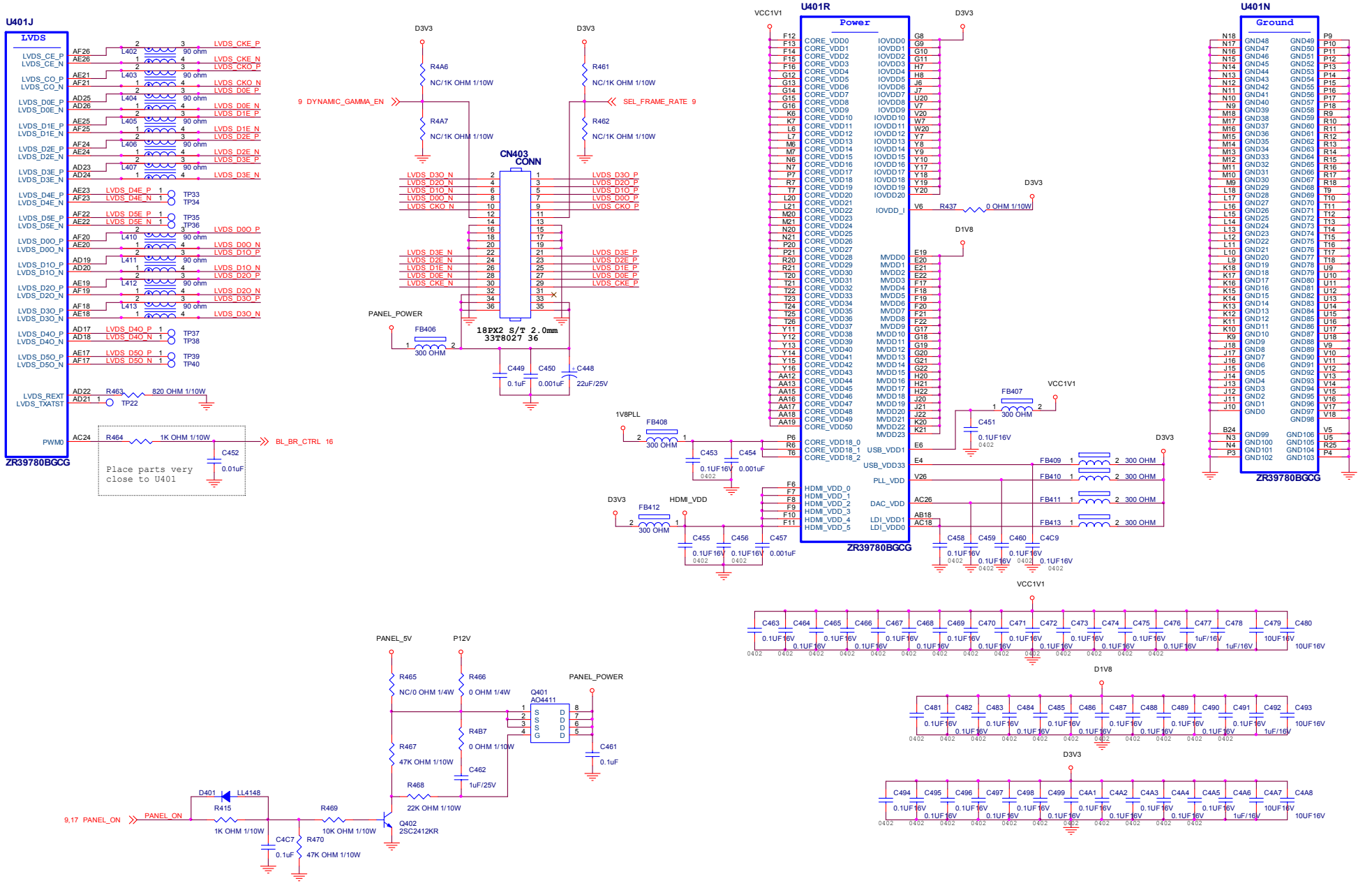




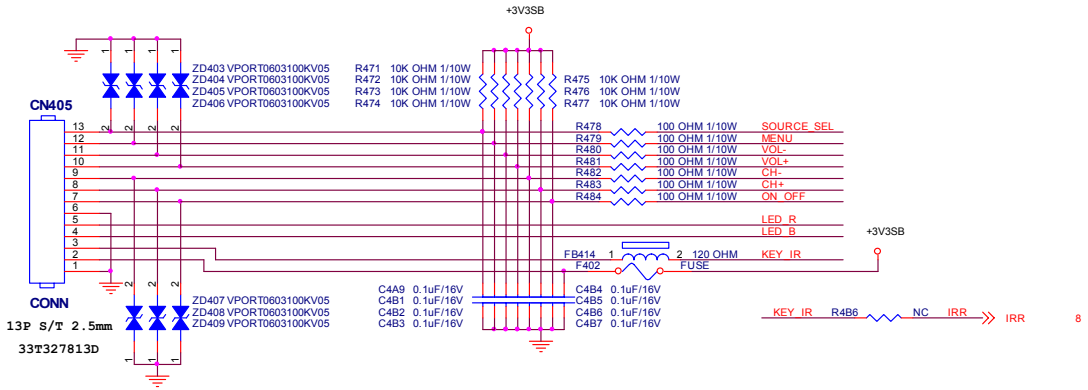
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 鎖 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	09-GPIO Block	PCB NAME	715T2830	称多	<称多>
Date	Monday , March 03, 2008	Sheet	9 of 18		

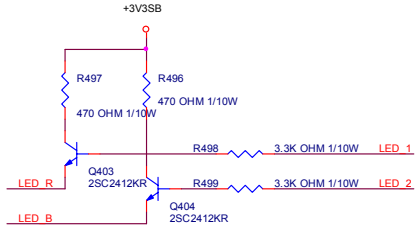


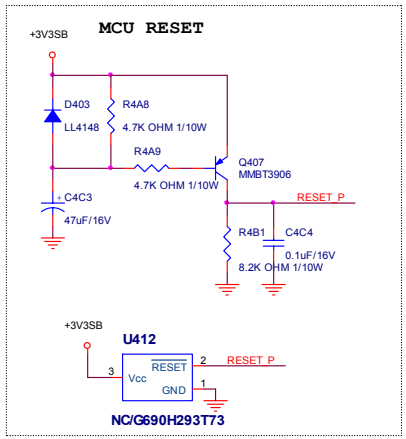
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 陽 瓜 鋼 膜	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	10-DDRII SDRAM I/F	PCB NAME	715T2830	称 多	<称多>
Date	Monday, March 03, 2008	Sheet	10 of 18		

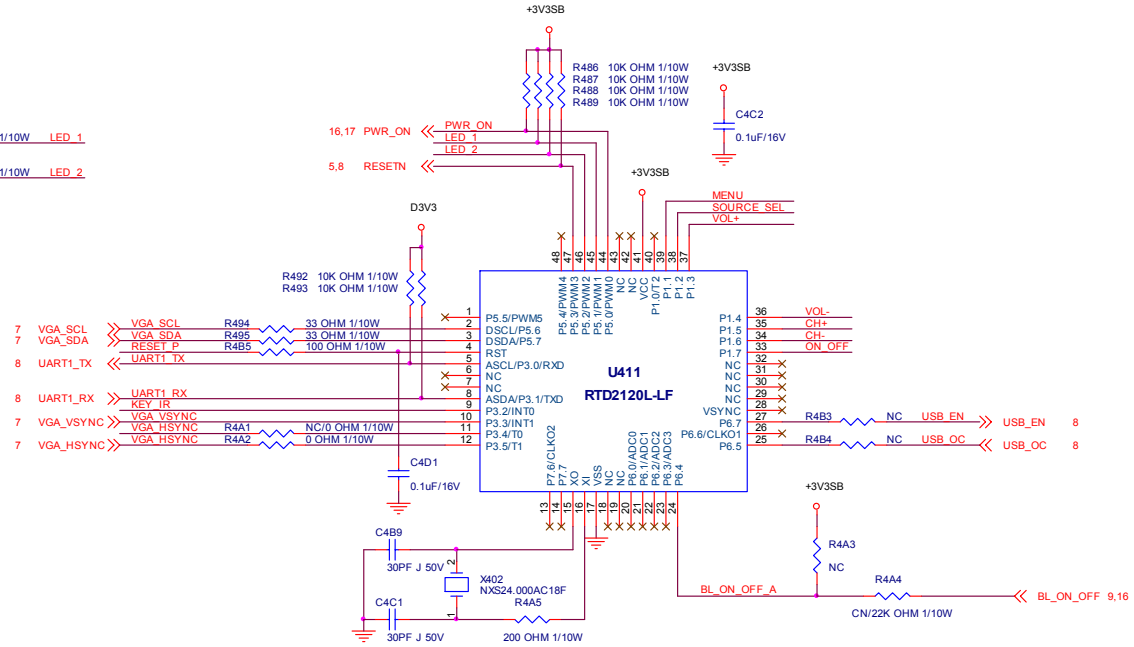


T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL: X	Size	Custom
版 隔 瓜 銅 版	T2830-D-2-X-1-080211	TPV MODEL: X	Rev: B
Key Component	11-LVDS I/F	PCB NAME: 715T2830	修多: <修多>
Date: Tuesday, March 04, 2008		Sheet: 11 of 18	

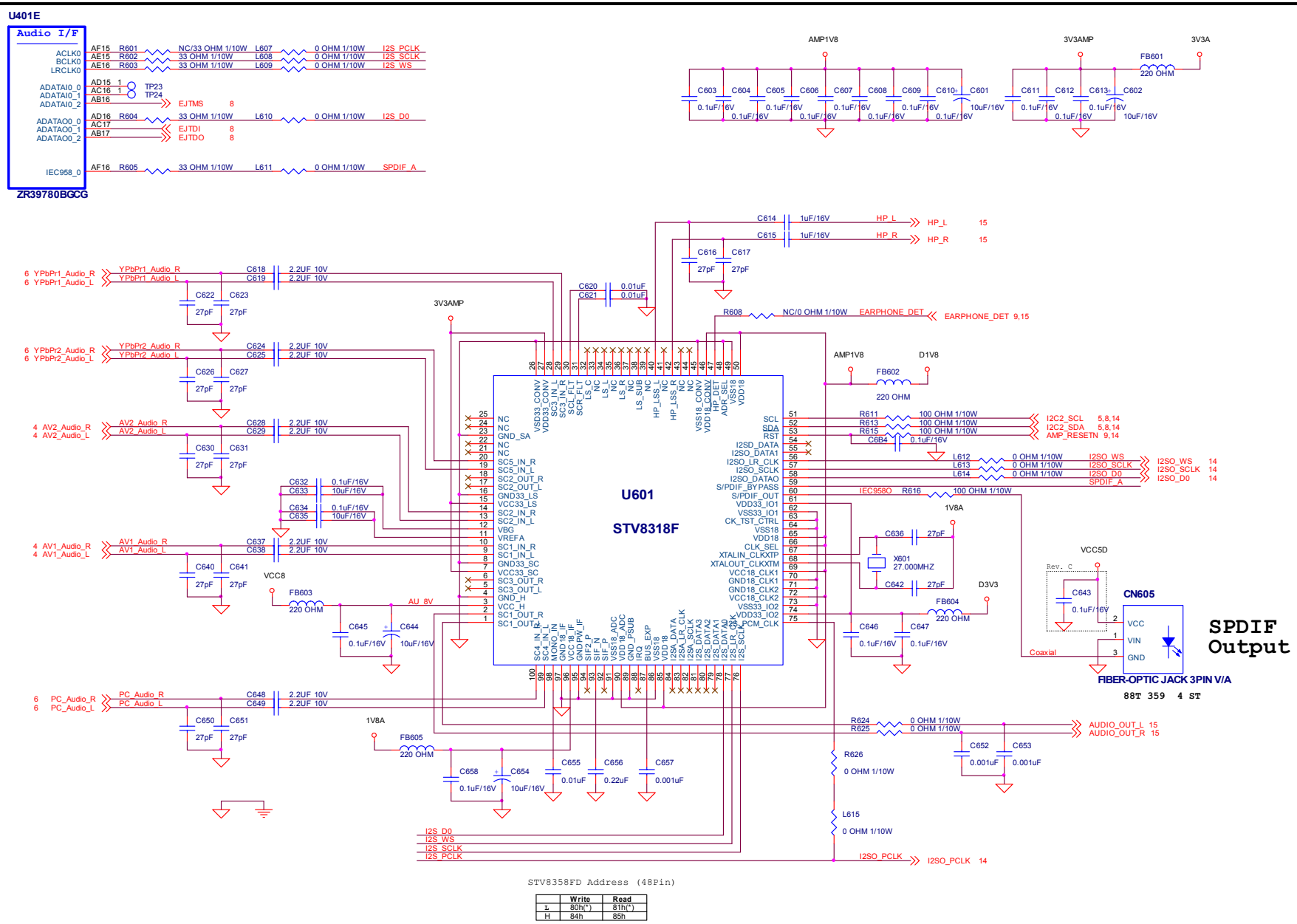




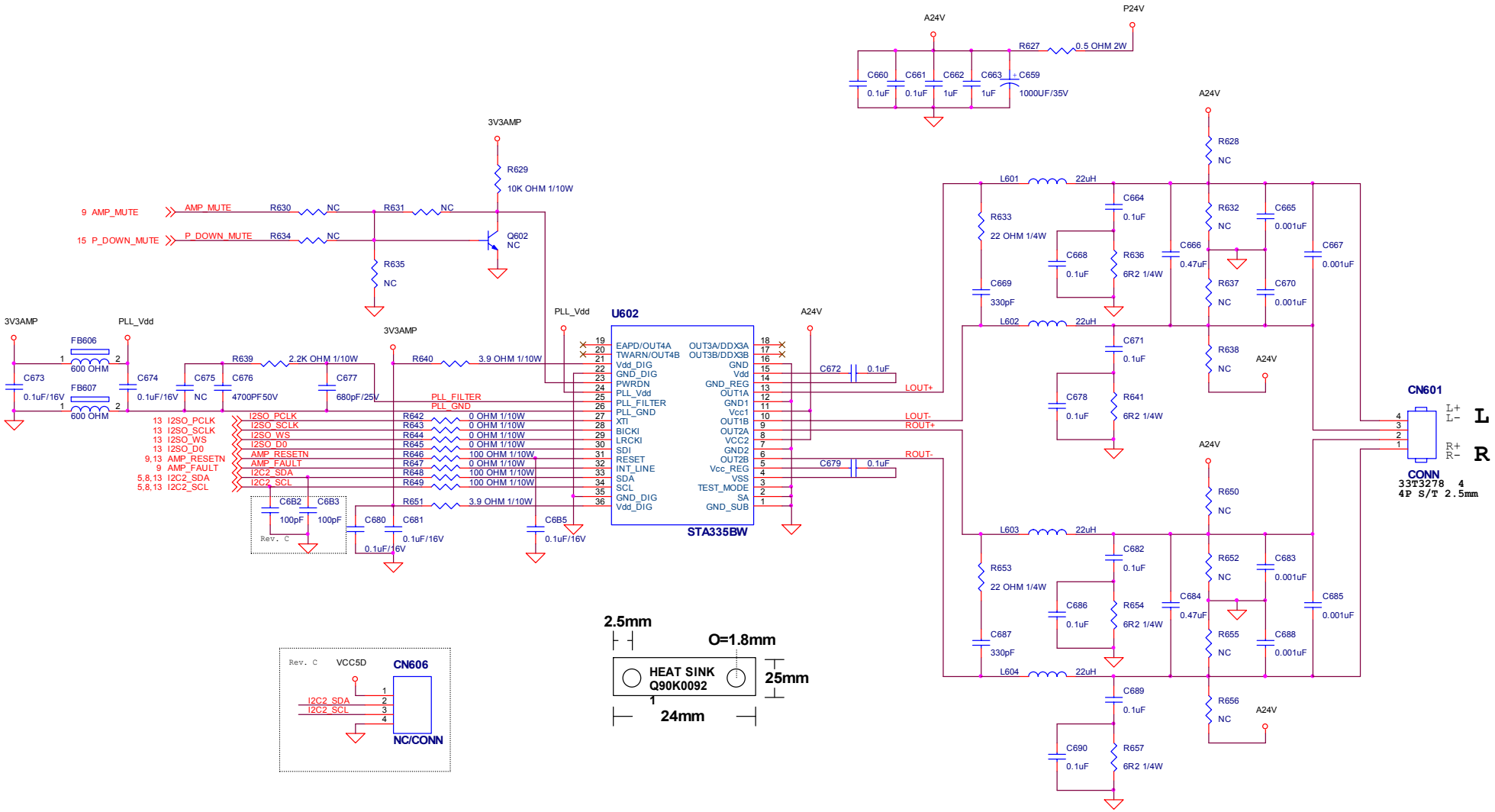




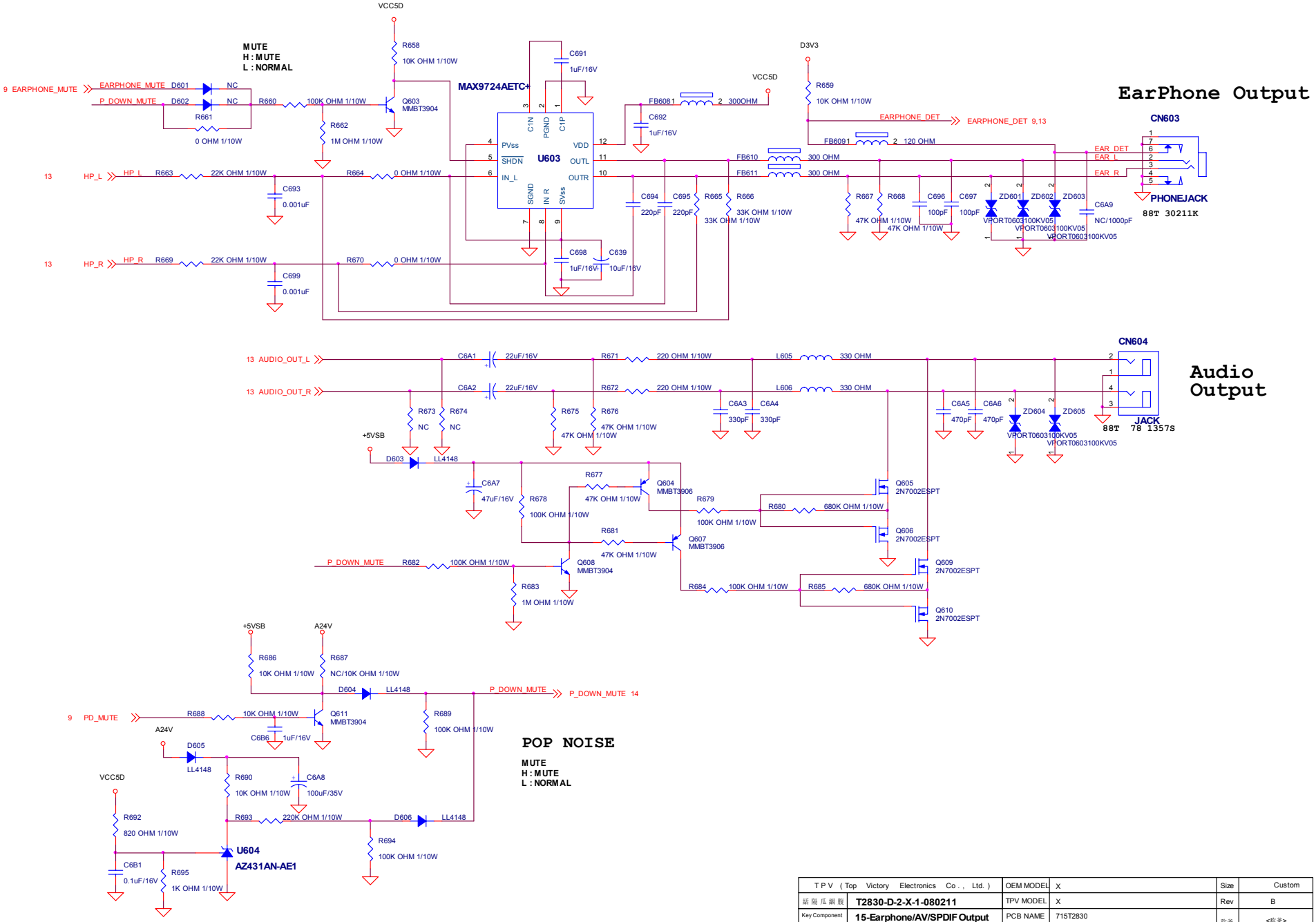
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 銀 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	12-Standby MCU	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday, March 03, 2008	Sheet	12 of 18		



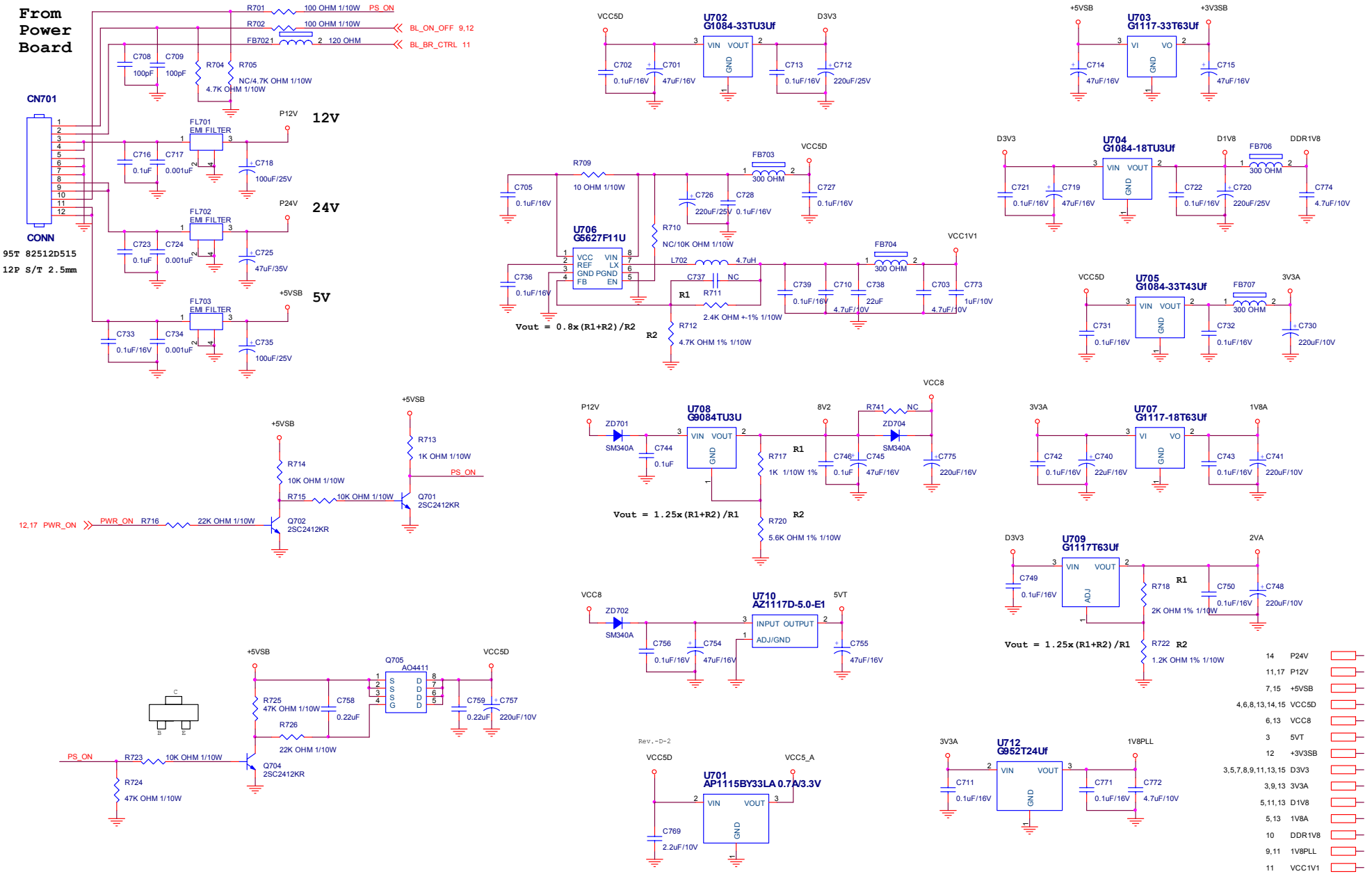
T P V (Top Victory Electronics Co., Ltd.)	OEM MODEL	X	Size / Custom
紙陽瓜銅版 T2830-D-2-X-1-080211	TPV MODEL	X	Rev / B
Key Component 13-Audio Processor	PCB NAME	715T2830	称爹 / <称爹>
Date Monday, March 03, 2008	Sheet	13 of 18	



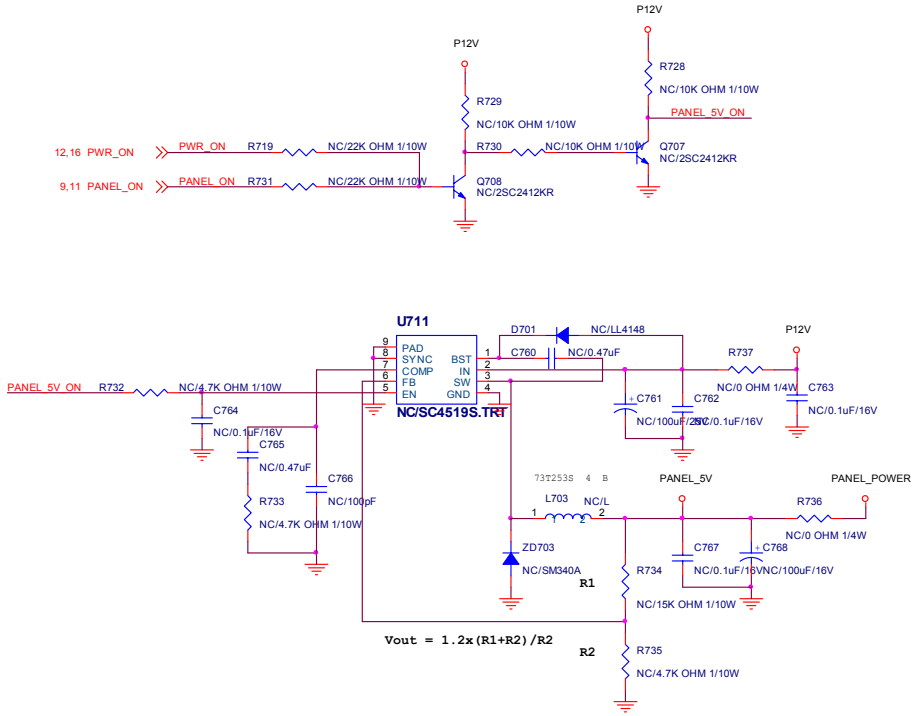
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 隔 瓜 鋼 股	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	14-Audio Amplifier	PCB NAME	715T2830	称 爹	<称爹>
Date	Monday , March 03, 2008	Sheet	14 of 18		



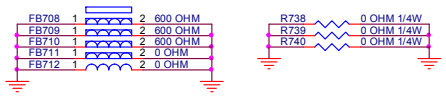
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
話 隔 瓜 猢 腹	T2830-D-2-X-1-080211	TPV MODEL	X	Rev	B
Key Component	15-Earphone/AV/SPDIF Output	PCB NAME	715T2830	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	15 of 18		



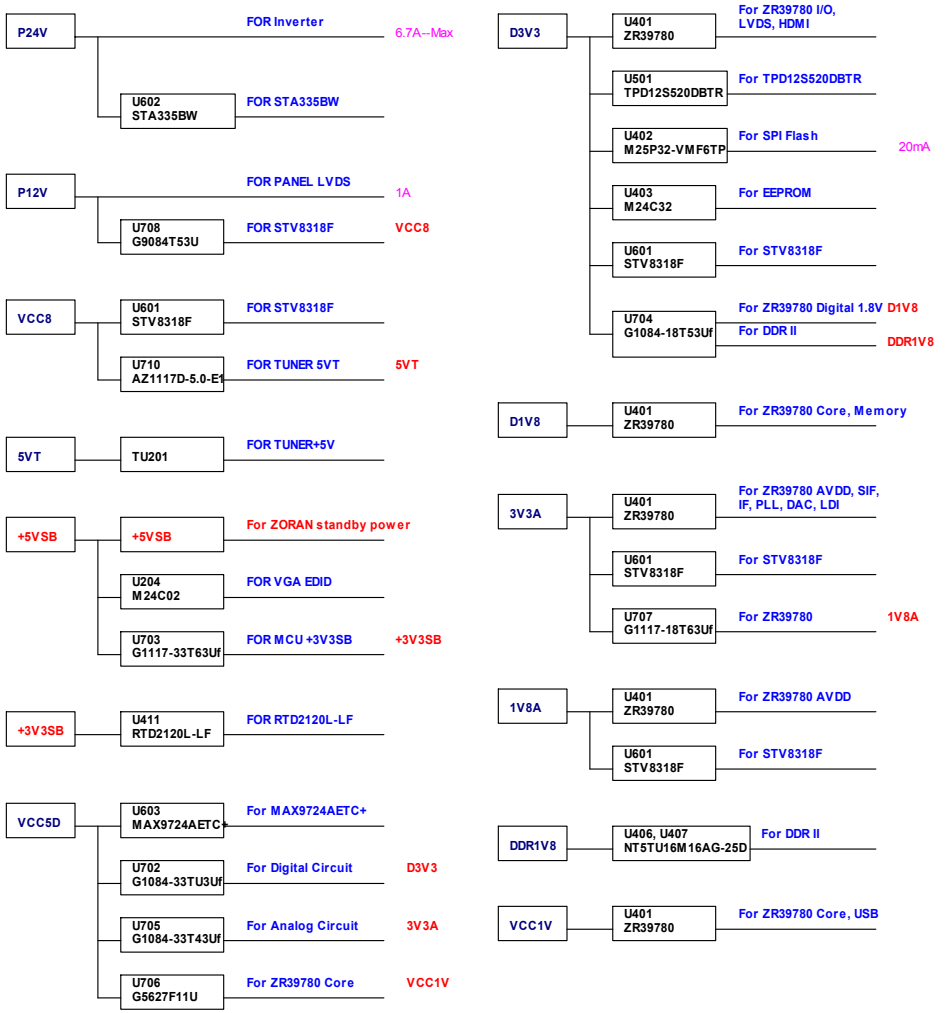
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
結 陽 瓜 鎖 腹	T2830-2-2-X-1-080231	TPV MODEL	X	Rev	B
Key Component	15-Power	PCB NAME	715T2830	称多	<称多>
Date	Monday, March 03, 2008	Sheet	16 of 18		



For 32' 5V PANEL Power

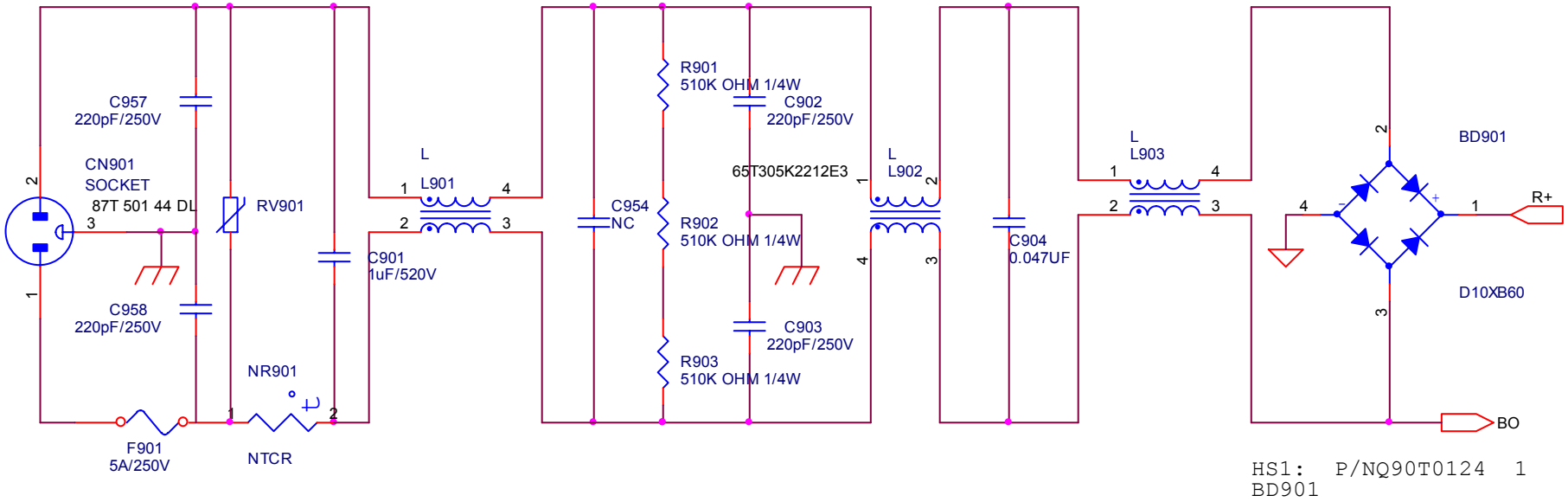


POWER INPUT TYPE
+5VSB , P12V, P24V

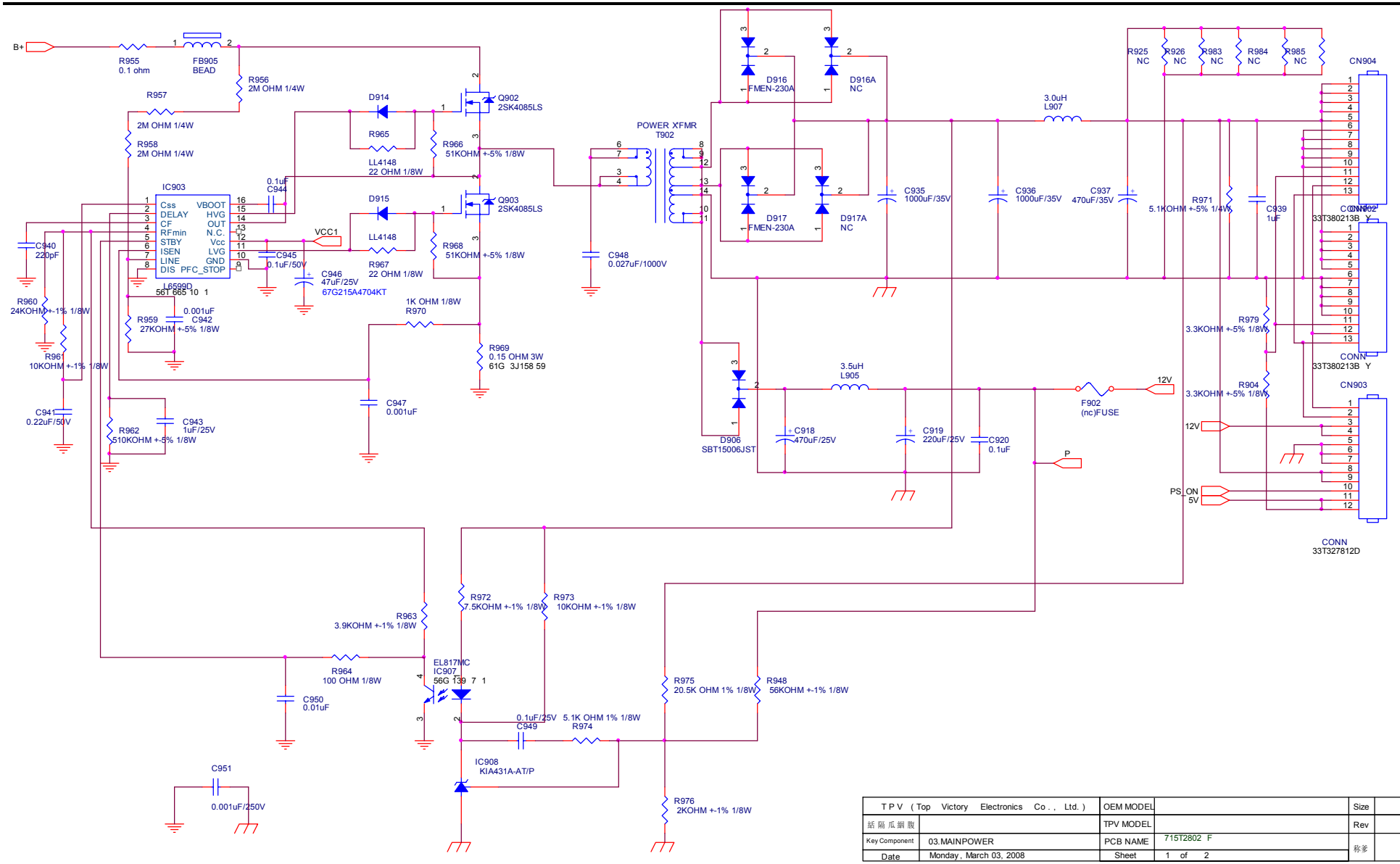


T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL	X	Size	Custom
延 陽 瓜 鎖 腹	T2830-2-2-X-1-080231	TPV MODEL	X	Rev	B
Key Component	17-Power & Power Loop	PCB NAME	715T2830	称爹	<称爹>
Date	Monday, March 03, 2008	Sheet	17 of 18		

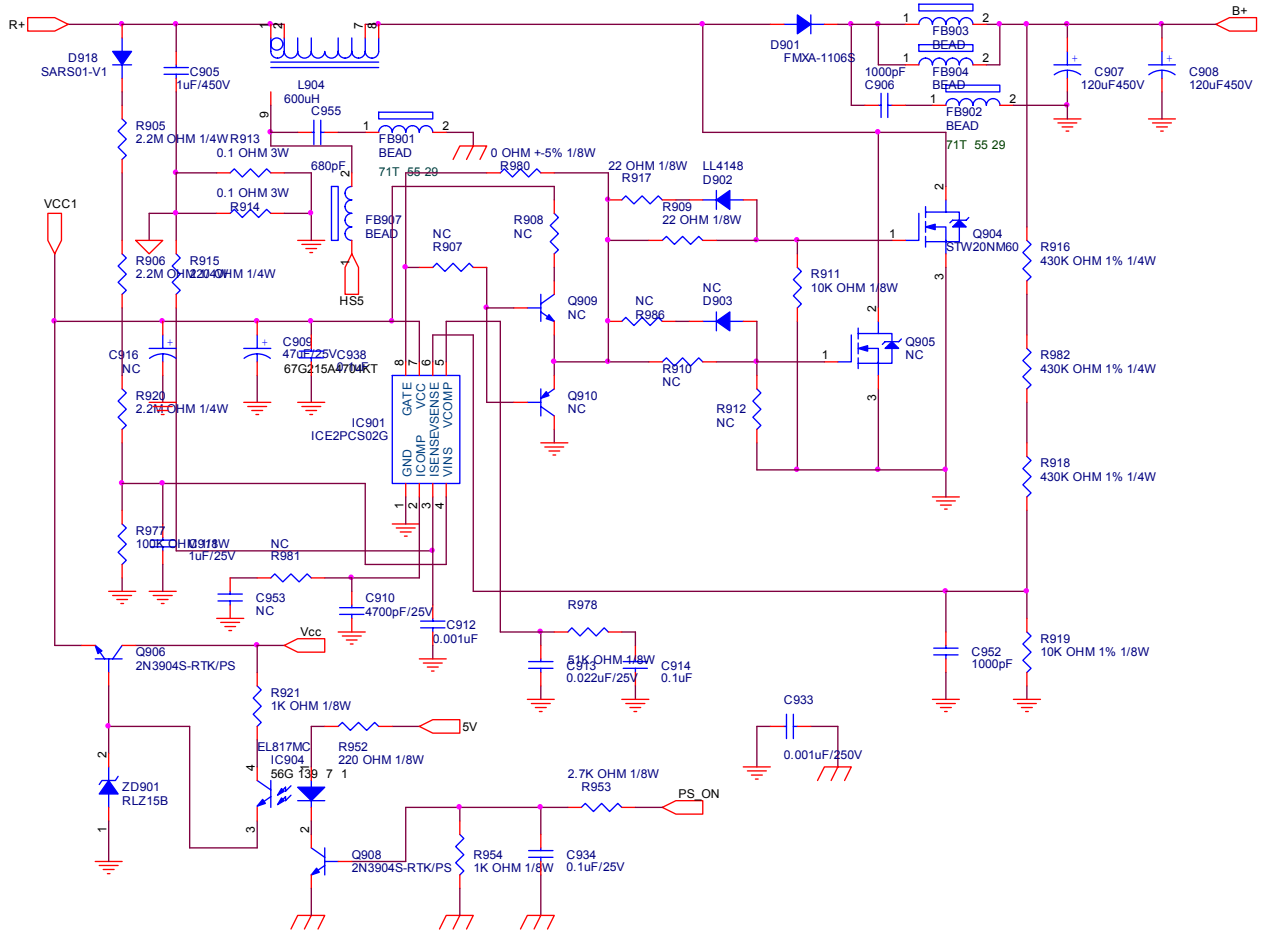
9.2 Power Board



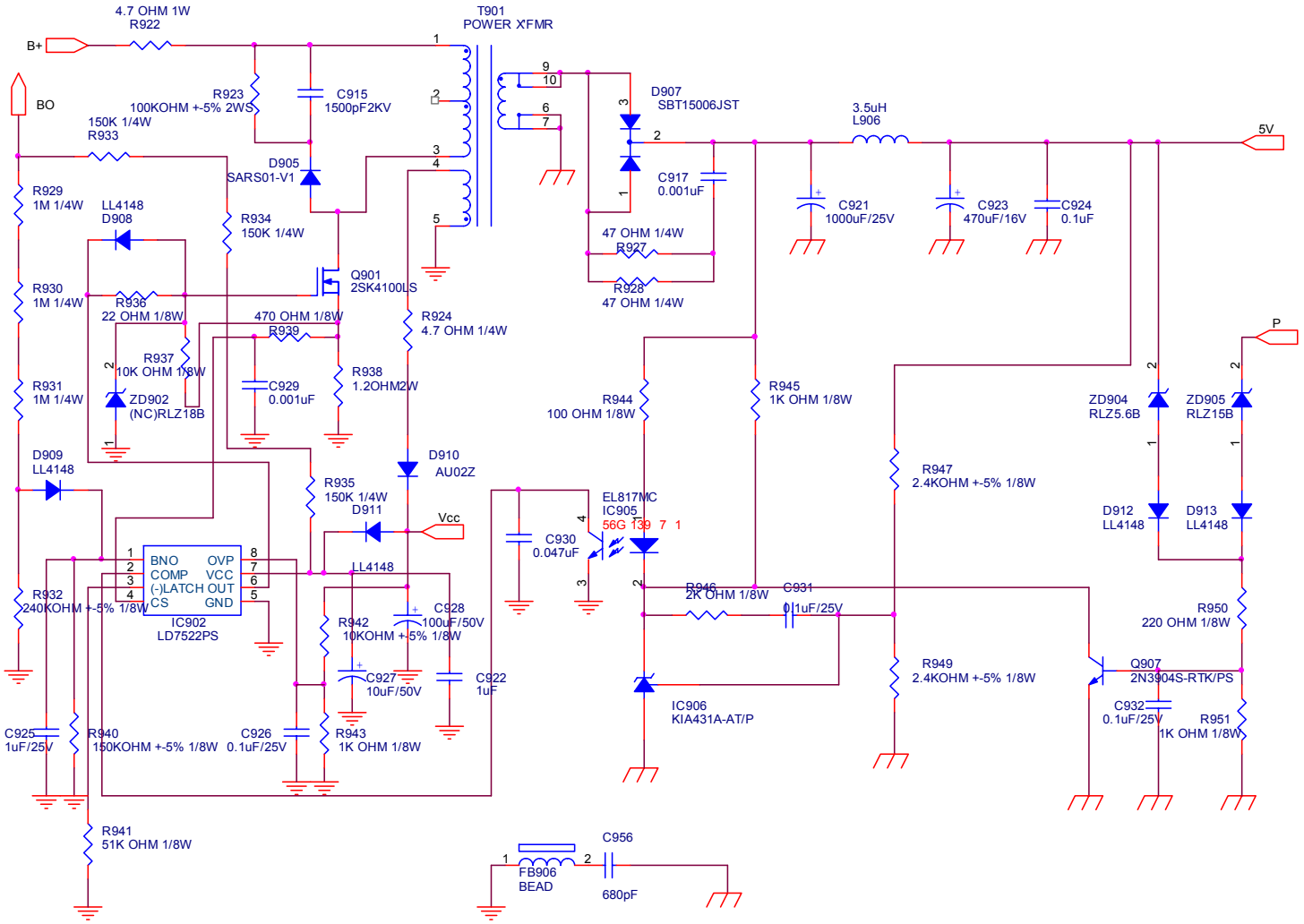
T P V (Top Victory Electronics Co . , Ltd.)		OEM MODEL		Size	A
結 隔 瓜 綑 腹		TPV MODEL		Rev	1.0
Key Component	02.ACside	PCB NAME	715T2802 F	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	1 of 2		



T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	B
結 隔 瓜 綢 腹		TPV MODEL		Rev	1.0
Key Component	03.MAINPOWER	PCB NAME	715T2802 F	称爹	<称爹>
Date	Monday , March 03, 2008	Sheet	1 of 2		

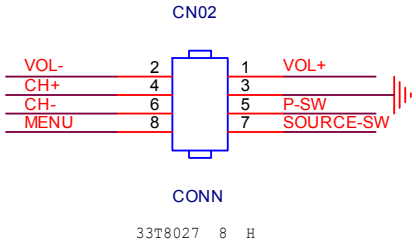


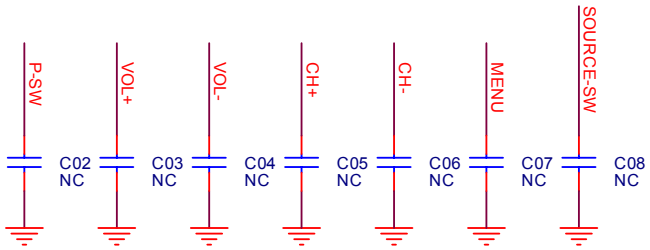
T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL		Size	B
話 隔 爪 錮 腹		TPV MODEL		Rev	1.0
Key Component	04.PFC	PCB NAME	715T2802 F	称多	<称多>
Date	Monday , March 03, 2008	Sheet	1 of 2		

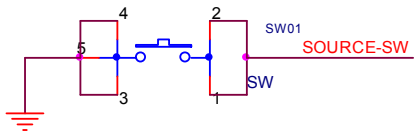


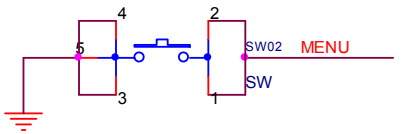
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	B
結 隔 瓜 網 腹		TPV MODEL		Rev	1.0
Key Component	05.STANDBY	PCB NAME	715T2802 F	称爹	<称爹>
Date	Monday, March 03, 2008	Sheet	1 of 2		

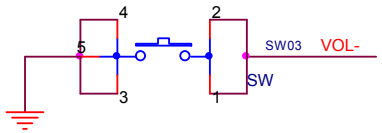
9.3 Key Board

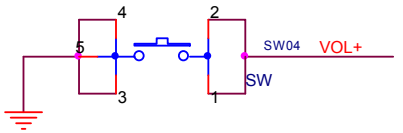


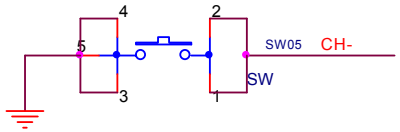


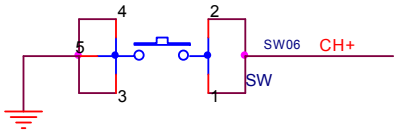


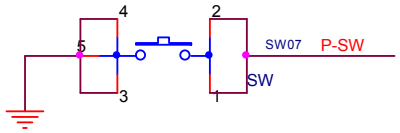






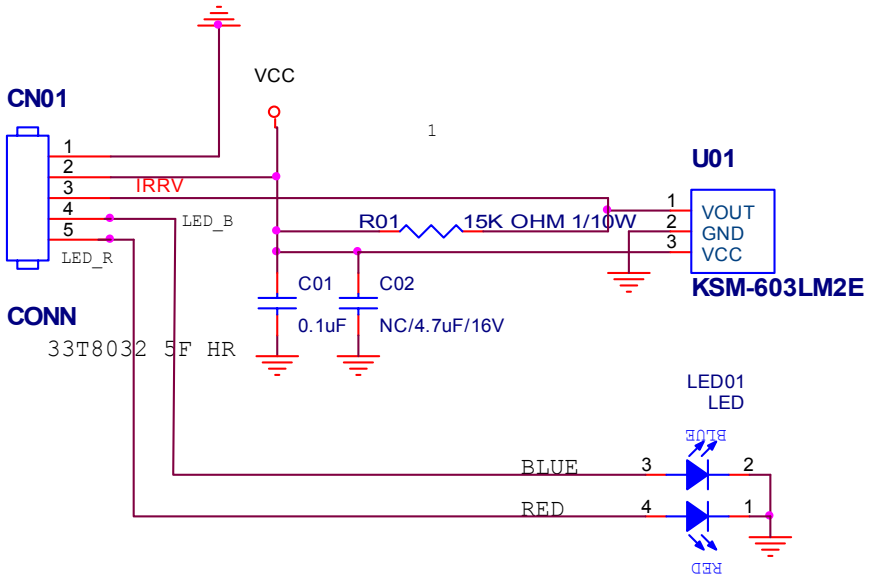






Title		
Size A	Document Number 715T2833	Rev A
Date: Thursday, August 02, 2007	Sheet 1 of 1	

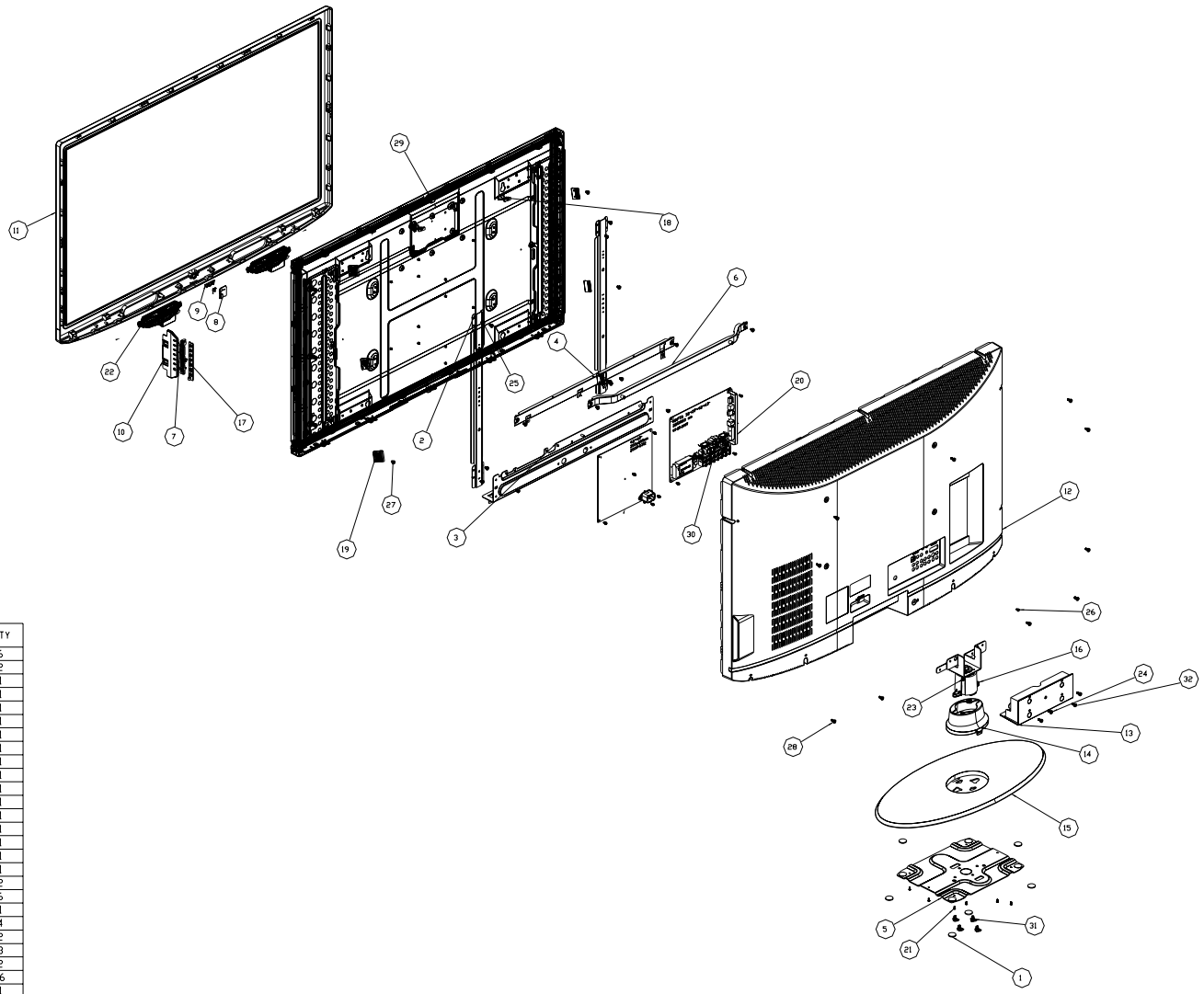
9.4 IR Board



T P V （Top Victory Electronics Co . , Ltd. ）		OEM MODEL	X	Size	A
結 隔 瓜 網 腹	T2687-1	TPV MODEL		Rev	E
Key Component	02-IR&LED	PCB NAME	715T2832	称 爹	<称爹>
Date	Monday, March 31, 2008	Sheet	1 of 1		

10. Exploded View

L47H861



ITEM	PART NO.	DESCRIPTION	Q'TY
1		FOOT PAD	6
2		Panel Bracket CMO	2
3		Stand Bracket	1
4		PCB Bracket	1
5		Base Bracket	1
6		VESA Bracket	1
7		BUTTON_FUNC	1
8		IR board ASSY	1
9		LENS_POWER&IR FOR A2	1
10		COVER_FUNC	1
11		bezel tv42w-8a2	1
12		REAR COVER 42"	1
13		Neck Cover	1
14		Stand Cover A1	1
15		BASE S1	1
16		HINGE	1
17		KEY board ASSY	1
18		Fix Bracket for CMO L07	2
19		Fix Bracket for CMO L07 Side	6
20		MAIN BOARD	1
21		C-P3X8	4
22		SPEAKER 8 OHM 11W 156X30mm	2
23		SCREW	3
24		SCREW	2
25		SCREW	16
26		SCREW	1
27		SCREW	8
28		SCREW	12
29		PANEL	1
30		SCREW	12
31		SCREW	4
32		SCREW	2

11. BOM List

E478MZNKW8A52N

Location	Part Number	Description	Remark
	033T 465 1	CLIP JIONTER	
	044T6002709 3A	PAPER BOARD	
	044T9003 3	CORNER PAPER	
	049T 51 1A	ERADICATOR	
	Q07T 8 3127	COMPOUND PALLET	
	Q44TS002615 4A B	47 TV AOC CARTON BOTTOM	
	Q44TS002615 4A T	47 TV AOC CARTON TOP	
	Q45G 77 5	PE PACKING	
	Q50T 500529	CABLE TIE	
	Q41T4701615 1A	MANUAL	
	Q41T7800615A68	MEXICO CENTER LIST	
	Q41T7800615A94	WARRANTY BOOKLET	
	Q41T780B61516A	QSG	
	Q44T600024D 3A	CARTON	
	Q45T 76 28NV2 R	PE BAG FOR CLAMP	
	Q45T2007M0102A	PE BAG	
	040T 58162435A	LABEL	
	040T 581654 3A	CARTON LABEL	
	Q26T 800504 2	BARCODE	
	Q40T 582813 3A	S/N LABEL	
	040T 459690 5A	CARTON LABEL	
	052T 1150 C	BLACK TAPE	
	052T 1150 C	BLACK TAPE	
	052T 1185 1	BIG TAPE	
	052T 1186	SMALL TAPE	
	052T 1211 B	ADHESIVE TYPE	
	052T 1211523	ALUMINUM FOIL TAPE	
	052T 2191 A	TAPE	
	078T 499 1 Y	SPK 8 OHM 11W 156X30MM	
	089T402A15N IS	POWER CORD	
	092TB1JX1A31GM	PEONY A1KALINE LR03	
	098TRABD3NEACC	REMOTE CONTROL RL57A	
	0M1T 930 6 47 CR3	SCREW	
	0M1T 940 6120	SCREW	
	0M1T 940 6120	SCREW	
	0M1T 940 6120	SCREW	
	0M1T 940 16 47 CR3	SCREW M4X6	
	0M1T 940 16 47 CR3	SCREW M4X6	
	0Q1T 930 8 47 CR3	SCREW	
	0Q1T 930 8120	SCREW	
	0Q1T 940 12 47 CR3	T4X12 SCREW	
	0Q1T 940 20 47 CR3	SCREW	
	0Q1T1840 10120	SCREW	
	705TQ8SK078	SKD ASS'Y 47	
	050T 500 1	CABLE TIE	
E09502	095T801313D624	WIRE HARNESS 13P(PLUG)-8P+5P(A1253HA HR)	2nd source
E09502	095T801313X624	WIRE HARNESS 13P(PLUG)-8P+5P(A1253HA HR)	
E09503	095T8014 4D561	WIREHARNESS 4P-B&R+B&W	
E09503	095T8014 4X561	WIREHARNESS 4P-B&R+B&W	2nd source
E09504	095T801413D 31	HARNESS 12P-13P 600MM	
E09504	095T801413X 31	HARNESS 12P-13P 600MM	2nd source

E09505	095T801414D109	HARNESS 14P-13P 550MM	
E09505	095T801414X109	HARNESS 14P-13P 550MM	2nd source
E09506	095T801851D503	LVDS CABLE 51P-36P 320MM	
E09506	095T801851X503	LVDS CABLE 51P-36P 320MM	2nd source
	0D1T 940 6120	SCREW	
	0M1T 940 16 47 CR3	SCREW M4X6	
	0M1T 960 10120	SCREW	
	0M1T1730 8120	SCREW	
	0M1T1730 8120	SCREW	
	0M1T1730 10120	SCREW	
	0Q1T 940 12 47 CR3	T4X12 SCREW	
	0Q1T 940 20 47 CR3	SCREW	
	705TQ834196	BEZEL ASS'Y SKD ACER	
	0Q1T 930 6120	SCREW	
	A33T0304 GMA1L0100	COVER_FUNC	
	A33T0305 QV 1L0100	BUTTON_FUNC	
	A33T0334AEU 1C0100	LENS_POWER&IR FOR A2	
	A34T0583 GMD2L0130	BEZEL TV47W-8A2	
	KEPF7QAA	KEY BOARD	
CN02	033T8027 8 H	WAFER	
SW03	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW02	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW01	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW07	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW06	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW05	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
SW04	077T 600 1GCJ	TACT SWITCH TSPB-2 -NP	
	715T2833 1	KEY BOARD PCB	
	705TQ834197	REAR COVER ASS'Y	
	036T 600 18118	NONWOVEN FABRTC	
	A15T0282101	BKT-VESA-BTM	
	A34T0584 GM 1A0100	REAR COVER-A1	
	Q36T 600 18120	CLOTH_GRIDDING	
	Q36T 600 30 5	NONWOVEN FABRIC	
	Q36T 600 30 9	HIMERON	
	Q40T000297625A	IO LABEL	
	705TQ834198	STAND ASS'Y	
	0M1T 930 6120	SCREW M3-0.5X6	
	0M1T6022500	SCREW	
	0Q1T 130 8120	SCREW	
	A15T0349101	BKT-BASE-PLATE-A1	
	A34T0585 GM 1L0100	NECK COVER-A1	
	A34T0586 GM 1L0100	STAND COVER -A1	
	A34T0587 GM 1L0120	BASE COVER-A1	
	A37T0067011	SWIVEL ASSEMBLY	
	Q12T6300 25 1	FOOT PAD	
	A15T0345101	BKT-PCB-HOLDER	
	A15T0346102	BKT-PANEL	
	A15T0347201	BKT VESA	
	A15T0348101	BKT-STAND	
	ADPC24330BB1	POWER BOARD	
	040G 45762412B	CBPC LABEL	
	009T6005 1	GROUND TERMINAL	
CN903	033T327812D	WAFER 12P PLUG	
CN902	033T380213B Y	CONNECTOR	
CN904	033T380213B Y	CONNECTOR	
	051G 6 4503	GLUE_RTV	

IC904	056G 139 7 1	IC EL817MA M-TYPE	
IC905	056G 139 7 1	IC EL817MA M-TYPE	
IC907	056G 139 7 1	IC EL817MA M-TYPE	
R969	061G 3J158 59	0.15 OHM +-5% 3W	
RV901	061T 46 17	VARISTOR 560V TNR14V561K	
R913	061T153M108 59	RST MOFR 0.1 OHM +-5% 3WS	
R914	061T153M108 59	RST MOFR 0.1 OHM +-5% 3WS	
C904	063T107K474 US	X2 CAP 0.47UF K 275VAC	
C901	063T107K474 US	X2 CAP 0.47UF K 275VAC	
C948	063T210J2735C2	MPP 27NF J 1000V	
C905	063T210K105BCN	MPP CAP 1UF 520V P=15MM	
C902	065T305K2212E3	Y2 CAP 220PF / 250V 10%	
C903	065T305K2212E3	Y2 CAP 220PF / 250V 10%	
C957	065T305K2212E3	Y2 CAP 220PF / 250V 10%	
C958	065T305K2212E3	Y2 CAP 220PF / 250V 10%	
C955	065T306K6812BM	Y1 CAP 680PF 10% 250VAC KX	
C956	065T306K6812BM	Y1 CAP 680PF 10% 250VAC KX	
C951	065T306M1022B3	Y1 CAP 1000PF +-20% 250VAC CD SERIES	
C933	065T306M1022B3	Y1 CAP 1000PF +-20% 250VAC CD SERIES	
C921	067G215A1024KV	EC 1000UF 25V 12.5*20MM	
C908	067T 41Z15115K	EC 150UF M 450V 20*45MM	
C907	067T 41Z15115K	EC 150UF M 450V 20*45MM	
C936	067T215A1026KV	EC 1000UF 35V 12.5*25MM	
C935	067T215A1026KV	EC 1000UF 35V 12.5*25MM	
C923	067T215A4713KV	EC 470UF 16V M 10*12MM	
C918	067T215A4714KV	EC 470UF 25V 10*16MM	
C937	067T215A4716KV	EC 470UF 35V M 10*16MM	
L901	073L 174 49LSG	LINE FILTER	
L903	073L 174 49LSG	LINE FILTER	
L902	073L 174 52 LG	CHOKE COIL	
L904	073T 174119 N	PFC CHOKE 600UH YUVA-841	
L907	073T 253197 L	CHOKE COIL 3.0UH CC-009425	
T901	080TL32T 5 N	X'FMR 1.9MH YUVA-827	
T902	080TL42T 14 YS	X'FMR 600UH YS04160152	
CN901	087T 501 44 DL	AC SOCKET 3PIN + 2 SCREW HOLE V/T	
	705TQ757015	Q901 ASS'Y	
Q901	057T 667 52	FET 2SK4100LS-T 7A/650V TO-220FI(LS)	
	090G6084 1 GP	HEAT SINK	
	0M1T1730 8120	SCREW	
	705TQ761020	NR901 ASS'Y	
NR901	061T 58050 WL GP	RST NTCR 5 OHM +-15% 5A 13MM THINKING	
	Q09T 203 8	PIN	
	705TQ793025	D907 ASS'Y	
	090G6084 1 GP	HEAT SINK	
D907	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)	
	0M1T1730 8120	SCREW	
	705TQ793026	BD901 ASS'Y	
BD901	093T 50460 18	D10XB60	
	0M1T1730 10120	SCREW	
	Q90T0148 1	HEAT SINK	
	705TQ793071	D904/D901 ASS'Y	
	012T 372 2	SILICON	

Q904	057T 667 25	STW20NM60	
D901	093T 220 33	DIODE FMXA-1106S	
	0M1T1730 10120	SCREW	
	0M1T1730 10120	SCREW	
	Q90T0097A01	HEAT SINK	
	705TQ793072	D916/D917/D906 ASS'Y	
	005T 42 1	CUSHION	
	032G3028 8	MICA	
D906	093T 60298	DIODE SBT15006JST 15A/60V TO-220ML(LS)	
D917	093T 60315	DIODE V40100C-E3/4W 20A*2/100V TO-220AB	
D916	093T 60315	DIODE V40100C-E3/4W 20A*2/100V TO-220AB	
	0M1T1730 10120	SCREW	
	Q90T0148 1	HEAT SINK	
	705TQ857002	Q902/Q903 ASS'Y	
Q903	057T 667 24	STP20NM60 FP	
Q902	057T 667 24	STP20NM60 FP	
	0M1T1730 10120	SCREW	
	Q90G0099 1	HEAT SINK	
IC902	056T 379 79	IC LD7522PS SOP-8	
IC901	056T 379104	IC ICE2PCS02G PG-DSO-8	
IC903	056T 665 10 1	IC RESONANT L6599DTR SO-16N ST	
Q906	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC	
Q907	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC	
Q908	057T 417 12 T	TRA 2N3904S-RTK/PS SOT-23 KEC	
R932	061G0805244	RST CHIPR 240 KOHM +-5% 1/8W	
R929	061G1206105	1M 1206	
R930	061G1206105	1M 1206	
R931	061G1206105	1M 1206	
R933	061G1206154	RST CHIPR 150K OHM +-5% 1/4W	
R934	061G1206154	RST CHIPR 150K OHM +-5% 1/4W	
R935	061G1206154	RST CHIPR 150K OHM +-5% 1/4W	
R905	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W	
R906	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W	
R920	061G1206225	RST CHIPR 2.2 MOHM +-5% 1/4W	
R916	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W	
R982	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W	
R918	061G1206430 3F	RST CHIPR 430 KOHM +-1% 1/4W	
R980	061T0805000	RST CHIPR 0 OHM +-5% 1/8W	
R961	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W	
R973	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W	
R919	061T0805100 2F	RST CHIPR 10 KOHM +-1% 1/8W	
R964	061T0805101	RST CHIPR 100 OHM +-5% 1/8W	
R944	061T0805101	RST CHIPR 100 OHM +-5% 1/8W	
R921	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R943	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R945	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R951	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R954	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R970	061T0805102	RST CHIPR 1KOHM +-5% 1/4W	
R911	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W	
R937	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W	
R942	061T0805103	RST CHIPR 10 KOHM +-5% 1/8W	
R977	061T0805104	RST CHIPR 100 KOHM +-5% 1/8W	
R940	061T0805154	RST CHIPR 150 KOHM +-5% 1/8W	

R976	061T0805200 1F	RST CHIPR 2KOHM +-1% 1/8W	
R946	061T0805202	RST CHIPR 2 KOHM +-5% 1/8W	
R975	061T0805205 2F	RST CHIPR 20.5KOHM +-1% 1/8W	
R917	061T0805220	RST CHIPR 22 OHM +-5% 1/8W	
R936	061T0805220	RST CHIPR 22 OHM +-5% 1/8W	
R965	061T0805220	RST CHIPR 22 OHM +-5% 1/8W	
R967	061T0805220	RST CHIPR 22 OHM +-5% 1/8W	
R909	061T0805220	RST CHIPR 22 OHM +-5% 1/8W	
R950	061T0805221	RST CHIPR 220 OHM +-5% 1/8W	
R952	061T0805221	RST CHIPR 220 OHM +-5% 1/8W	
R960	061T0805240 2F	RST CHIPR 24 KOHM +-1% 1/8W	
R949	061T0805242	RST CHIPR 2.4 KOHM +-5% 1/8W	
R947	061T0805242	RST CHIPR 2.4 KOHM +-5% 1/8W	
R953	061T0805272	RST CHIPR 2.7 KOHM +-5% 1/8W	
R959	061T0805273	RST CHIPR 27 KOHM +-5% 1/8W	
R904	061T0805332	RST CHIPR 3.3 KOHM +-5% 1/8W	
R979	061T0805332	RST CHIPR 3.3 KOHM +-5% 1/8W	
R963	061T0805390 1F	RST CHIPR 3.9KOHM +-1% 1/8W	
R939	061T0805471	RST CHIPR 470 OHM +-5% 1/8W	
R974	061T0805510 1F	RST CHIPR 5.1KOHM +-1% 1/8W	
R941	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W	
R966	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W	
R968	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W	
R978	061T0805513	RST CHIPR 51 KOHM +-5% 1/8W	
R962	061T0805514	RST CHIPR 510KOHM +-5% 1/8W	
R948	061T0805560 2F	RST CHIPR 56KOHM +-1% 1/8W	
R972	061T0805750 1F	RST CHIPR 7.5KOHM +-1% 1/8W	
JR907	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR906	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR905	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR904	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR903	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR902	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
JR901	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
R956	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W	
R957	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W	
R958	061T1206205	RST CHIPR 2 MOHM +-5% 1/4W	
R915	061T1206221	RST CHIPR 220 OHM +-5% 1/4W	
R901	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W	
R902	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W	
R903	061T1206334	RST CHIPR 330 KOHM +-5% 1/4W	
R927	061T1206470	RST CHIPR 47 OHM +-5% 1/4W	
R928	061T1206470	RST CHIPR 47 OHM +-5% 1/4W	
R924	061T1206479	RST CHIPR 4.7 OHM +-5% 1/4W	
R971	061T1206512	RST CHIPR 5.1KOHM +-5% 1/4W	
C952	065T0805102 31	1000PF 50V NPO	
C912	065T0805102 32	CHIP 1000PF 50V X7R 0805	
C929	065T0805102 32	CHIP 1000PF 50V X7R 0805	
C947	065T0805102 32	CHIP 1000PF 50V X7R 0805	
C942	065T0805102 32 GP	CHIP 1000P 50VX7R 0805	
C950	065T0805103 32	10NF/50V/0805/X7R	
C931	065T0805104 22	0.1UF +-10% 25V X7R 0805	
C949	065T0805104 22	0.1UF +-10% 25V X7R 0805	
C934	065T0805104 22	0.1UF +-10% 25V X7R 0805	
C932	065T0805104 22	0.1UF +-10% 25V X7R 0805	
C926	065T0805104 22	0.1UF +-10% 25V X7R 0805	
C914	065T0805104 32	CHIP 0.1UF 50V X7R	

C944	065T0805104 32	CHIP 0.1UF 50V X7R	
C938	065T0805104 32	CHIP 0.1UF 50V X7R	
C924	065T0805104 32	CHIP 0.1UF 50V X7R	
C920	065T0805104 32	CHIP 0.1UF 50V X7R	
C911	065T0805105 22	CHIP 1UF 25V X7R 0805	
C943	065T0805105 22	CHIP 1UF 25V X7R 0805	
C925	065T0805105 22 GP	CHIP 1UF 25V X7R	
C922	065T0805105 37	CHIP 1UF 50V Y5V	
C939	065T0805105 37	CHIP 1UF 50V Y5V	
C940	065T0805221 31	220PF 50V NPO	
C913	065T0805223 22	CHIP 0.022UF 25V X7R 0805	
C941	065T0805224 32	0805.0.22UF.K.50V.X7R	
C910	065T0805472 22	CHIP 0.0047UF 25V X7R 0805	
C930	065T0805473 32	CHIP 0.047UF 50V X7R	
C917	065T1206102 72	CHIP 1000PF 500V X7R	
C945	065T1206104 32	CHIP 0.1UF 50V X7R 1206	
D915	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D914	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D913	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D912	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D911	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D909	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D908	093T 6432V	LL4148-GSO8 SMD BY VISHA	
D902	093T 6432V	LL4148-GSO8 SMD BY VISHA	
ZD901	093T 39S 15 T	RLZ15B	
ZD905	093T 39S 15 T	RLZ15B	
ZD904	093T 39S 24 T	RLZ 5.6B LLDS	
L904	006G 31 4	1.7MM RIVET	
CN901	006G 31501	EYELET	
T902	006G 31502	1.5MM RIVET	
IC906	056T 158 12	KIA431A-AT/P	
IC908	056T 158 12	KIA431A-AT/P	
R922	061G 30347852T GP	RST FUSER 0.47OHM +-5% 1W	
R955	061T 30310852T GP	0.1 OHM 1W FUSE RESISTOR	
R923	061T152M10452T	RST MOFR 100KOHM +-5% 2WS	
R938	061T152M12952T	RST MOFR 1.2OHM +-5% 2WS	
C915	065G 2K152 1T6213	CAP CER 1500PF K 2KV	
C909	067G215A4704KT	EC 47UF 25V 5*11MM	
C946	067G215A4704KT	EC 47UF 25V 5*11MM	
C927	067T215A1007KT	EC 10UF 50V 5*11MM	
C928	067T215A1017KT	EC 100UF 50V 8*12MM	
C919	067T215A2214KT	EC 220UF 25V 8*12MM	
FB903	071T 55 9 T	BEAD 3.5*6*0.8	
FB904	071T 55 9 T	BEAD 3.5*6*0.8	
FB905	071T 55 9 T	BEAD 3.5*6*0.8	
FB901	071T 55 29	BEAD	
FB906	071T 55 29 T	IND BEAD 3.5*4.5*0.8	
FB907	071T 55 29 T	IND BEAD 3.5*4.5*0.8	
F901	084T 55 4	FUSE 382-5A 250V WICKMANN	
D910	093T 5250S52T	AU02Z	
D905	093T1080 252T	DIODE SARSO1-V1 SANKEN	
D918	093T1080 252T	DIODE SARSO1-V1 SANKEN	
	715T2802 1	POWER BOARD PCB	
	006G 31 4	1.7MM RIVET	
L906	S73G25391V	CHOKE COIL ASS'Y	
L905	S73G25391V	CHOKE COIL ASS'Y	
	CBPF8Z6KQ4	MAIN BOARD	

	040T 45762412B	CBPC LABEL	
CN405	033T327813D	CONNECTOR	
CN601	033T3802 4B Y	CONNECTOR	
CN403	033T8027 36	WAFER	
	040T 457624 1B	CPU LABEL	
R627	061T152M50852T	0.5OHM 5% 2W	
C775	067T 305221 3T	220UF/16V	
C712	067T215B221 4P	CAP 105C 220UF M 25V 8*12	
C720	067T215B221 4P	CAP 105C 220UF M 25V 8*12	
C726	067T215B221 4P	CAP 105C 220UF M 25V 8*12	
C659	067T215S1026KV	EC CAP 1000UF 35V 12.5*25MM	
C238	067T305V470 3	105℃ 47UF +-20% 16V	
C424	067T305V470 3	105℃ 47UF +-20% 16V	
C4C3	067T305V470 3	105℃ 47UF +-20% 16V	
C6A7	067T305V470 3	105℃ 47UF +-20% 16V	
C701	067T305V470 3	105℃ 47UF +-20% 16V	
C714	067T305V470 3	105℃ 47UF +-20% 16V	
C715	067T305V470 3	105℃ 47UF +-20% 16V	
C719	067T305V470 3	105℃ 47UF +-20% 16V	
C745	067T305V470 3	105℃ 47UF +-20% 16V	
C754	067T305V470 3	105℃ 47UF +-20% 16V	
C755	067T305V470 3	105℃ 47UF +-20% 16V	
CN604	088T 78 1357C	RCA JACK 1*1 W+R V/A	
CN209	088T 78 1357C	RCA JACK 1*1 W+R V/A	
CN206	088T 78 1357C	RCA JACK 1*1 W+R V/A	
CN205	088T 78 1357C	RCA JACK 1*1 W+R V/A	
CN202	088T 78 1357C	RCA JACK 1*1 W+R V/A	
CN204	088T 78 1359S	RCA JACK+ S 3+1 Y/W/R	
CN201	088T 78 13932 S	RCA JACK + S JACK Y/B	
CN210	088T 7813A19C	RCA JACK 1*3 R/W/Y	
CN203	088T 100 11 ST	MINI DIN JACK 4P+ SWITCH 2MJ-0602-005	
CN603	088T 30211K	PHONE JACK	
CN208	088T 30252C	PHONE JACK 3.5MM 3P V/A GREEN	
CN402	088T 352 7 ST	USB CONNECTOR A TYPE REVERSE	
CN207	088T 35315F VC	D-SUB 15PIN VERTICAL CONNECTOR	
CN605	088T 359 5 JT	FIBER-OPTIC 3P V/T JST1227	
	090T 372 2	HEAT SINK	
X601	093T 2227S JZ	CRYSTAL 49/S-27.000MHZ	
X402	093T 2245B J	XTL NXS24.000AC18F-BK5 18PF 30PPM	
X401	093T 2262B J	CRYSTAL NXS25.000 AC 20PF HC-49/US NSK	
TU201	094TNTAT MA 4M	TUNER NTSC+ATSC ENG36E21KF PANASONIC	
CN701	095T 82512D517	HARNESS 12P(SCN)-12P(PLUG) 180MM	
	0M1T 930 6 47 CR3	SCREW	
	0Q1T 930 8 47 CR3	SCREW	
	A15T0287101	BKT-IO-US	
C666	064T176J474 0T	0.47UF +-5% 50/63V	
C684	064T176J474 0T	0.47UF +-5% 50/63V	
C271	067T 305100 3T	10UF 16V	
C272	067T 305100 3T	10UF 16V	
C273	067T 305100 3T	10UF 16V	
C274	067T 305100 3T	10UF 16V	
C275	067T 305100 3T	10UF 16V	
C276	067T 305100 3T	10UF 16V	

C2A5	067T 305100 3T	10UF 16V	
C2A6	067T 305100 3T	10UF 16V	
C2A7	067T 305100 3T	10UF 16V	
C2A8	067T 305100 3T	10UF 16V	
C601	067T 305100 3T	10UF 16V	
C602	067T 305100 3T	10UF 16V	
C639	067T 305100 3T	10UF 16V	
C644	067T 305100 3T	10UF 16V	
C654	067T 305100 3T	10UF 16V	
C435	067T 305101 4T	CAP 105℃ 100UF M 25V	
C718	067T 305101 4T	CAP 105℃ 100UF M 25V	
C735	067T 305101 4T	CAP 105℃ 100UF M 25V	
C6A8	067T 305101 6T	E.C 100UF M 35V 8*12	
C6A1	067T 305220 3T	EC 105℃ 22UF M 16V	
C6A2	067T 305220 3T	EC 105℃ 22UF M 16V	
C740	067T 305220 3T	EC 105℃ 22UF M 16V	
C448	067T 305220 4T	105 RADIAL E-CAPACTOR 22UF 25V	
C730	067T 305221 2T	CAP 105℃ 220UF M 10V	
C741	067T 305221 2T	CAP 105℃ 220UF M 10V	
C748	067T 305221 2T	CAP 105℃ 220UF M 10V	
C757	067T 305221 2T	CAP 105℃ 220UF M 10V	
C2A2	067T 305470 3T	EC 105℃ 47UF M 16V	
C2A4	067T 305470 3T	EC 105℃ 47UF M 16V	
C725	067T 305470 6T	E.C 47UF M 35V	
L604	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7	
L603	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7	
L602	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7	
L601	073T 259901 T	CHOKE 22UH 10% TSL0808RA-220K1R7	
FL703	053T 43 1	FILTER BULLWILL	
FL702	053T 43 1	FILTER BULLWILL	
FL701	053T 43 1	FILTER BULLWILL	
U604	056T 158501	IC AS431AN-E1 SOT23	
U706	056T 379 92	IC G5627F11U SOP-8(FD)	
U705	056T 563 75	G1084-33T43UF TO-252	
U701	056T 563112	IC AP1115BY33LA 0.7A/3.3V SOT89-3L	
U707	056T 563113	IC G1117-18T63UF 1A/1.8V SOT-223	
U703	056T 563114	IC G1117-33T63UF 1A/3.3V SOT-223	
U702	056T 563121	IC G1084-33TU3UF TO-263T	
U704	056T 563123	IC G1084-18TU3UF TO-263T	
U708	056T 563124	ICG9084TU3U TO-263T	
U709	056T 563126	IC G1117T63UF SOT-223	
U712	056T 563135	IC G952T24UF SOT-89	
U710	056T 585 11	AZ1117D-5.0-E1	
U601	056T 593 29 1	IC STV8318F TQFP-100	
U602	056T 593 32	IC STA335BW13TR POWERSSO36	
U205	056T 614 1	IC 74HC4052D PHILIPS	
U406	056T 615 66	IC NT5TU16M16AG-25D 256MB BGA-84	
U407	056T 615 66	IC NT5TU16M16AG-25D 256MB BGA-84	
U603	056T 616 43	IC MAX9724AETC+ TQFN-EP-12	
U201	056T 634 2 1	IC PI5V330SQEX QSOP-16 PERICOM	
U507	056T 634 21	IC SII9185ACTU TQFP-80	
U506	056T 662 10	IC RCLAMP0524P.TCT	
U505	056T 662 10	IC RCLAMP0524P.TCT	

U411	056T1125701 X DAEKZ4V19SQ1	IC MCU RTD2120L-LF LQFP48	
U401	056T1126 31	IC ZR39780HGCF BGA-632	
U204	056T1133 84	AF24BC02-S1	
U402	056T1133103 DAEKZ3M47NQ1	IC M25P32-VMF6P 32M S0-16	
U403	056T113353A	M24C32-WMN6TP	
U203	056T4LVT 14 P	IC 74LVT14D,118 BY SO-14 PHILIPS	
Q603	057T 417511	TRA MMBT3904 BLUE ROKET	
Q608	057T 417511	TRA MMBT3904 BLUE ROKET	
Q611	057T 417511	TRA MMBT3904 BLUE ROKET	
Q407	057T 417512	TRA MMBT3906 BLUE ROKET	
Q604	057T 417512	TRA MMBT3906 BLUE ROKET	
Q607	057T 417512	TRA MMBT3906 BLUE ROKET	
Q610	057T 759 2	RK7002	
Q609	057T 759 2	RK7002	
Q606	057T 759 2	RK7002	
Q605	057T 759 2	RK7002	
Q401	057T 763 3	AO4411L SO-8 BY AOS SMT	
Q705	057T 763 3	AO4411L SO-8 BY AOS SMT	
Q704	057T 765 1	2SC2412KR	
Q702	057T 765 1	2SC2412KR	
Q701	057T 765 1	2SC2412KR	
Q404	057T 765 1	2SC2412KR	
Q403	057T 765 1	2SC2412KR	
Q402	057T 765 1	2SC2412KR	
Q204	057T 765 1	2SC2412KR	
Q203	057T 765 1	2SC2412KR	
Q202	057T 765 1	2SC2412KR	
Q201	057T 765 1	2SC2412KR	
R657	061G1206629	RST CHIP 6R2 1/4W 5%	
R654	061G1206629	RST CHIP 6R2 1/4W 5%	
R641	061G1206629	RST CHIP 6R2 1/4W 5%	
R636	061G1206629	RST CHIP 6R2 1/4W 5%	
L610	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L609	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L608	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R624	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R625	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R626	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R642	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R643	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R644	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R645	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R647	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R661	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R664	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R670	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB711	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB712	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R4B2	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L611	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L612	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L613	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L614	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L615	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R208	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R296	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R408	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	

R437	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R438	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R444	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R451	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R4A2	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
L607	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB238	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
FB237	061T0603000	RST CHIPR 0 OHM +-5% 1/10W	
R709	061T0603100	CHIP 10OHM 1/16W	
R456	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W	
R455	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W	
R453	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W	
R452	061T0603100 0F	RST CHIPR 100 OHM +-1% 1/10W	
R717	061T0603100 1F	RST CHIPR 1 KOHM +-1% 1/10W	
R4B5	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R611	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R613	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R615	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R616	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R646	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R648	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R649	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R701	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R702	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R268	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R270	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R273	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R283	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R291	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R2A7	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R427	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R429	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R454	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R460	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R478	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R479	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R480	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R481	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R482	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R483	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R484	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R490	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R207	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R206	061T0603101	RST CHIPR 100 OHM +-5% 1/10W	
R216	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R271	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R272	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R2E1	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R2E2	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R403	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R405	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R406	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R415	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R464	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R695	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R713	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R269	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	

R4A6	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R461	061T0603102	RST CHIPR 1KOHM +-5% 1/10W	
R715	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R723	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R266	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
ZD230	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R471	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R472	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R473	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R714	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R474	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R475	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R476	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R477	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R486	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R487	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R488	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R489	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R492	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R493	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R502	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R503	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R514	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R515	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R523	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R524	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R629	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R658	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R659	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R686	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R688	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R690	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R469	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R424	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R205	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R204	061T0603103	RST CHIPR 10KOHM +-5% 1/10W	
R246	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R247	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R248	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R249	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R250	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R251	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R660	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R678	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R679	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R682	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R684	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R689	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R694	061T0603104	RST CHIPR 100KOHM +-5% 1/10W	
R683	061T0603105	RST CHIPR 1MOHM +-5% 1/10W	
R662	061T0603105	RST CHIPR 1MOHM +-5% 1/10W	
R428	061T0603105	RST CHIPR 1MOHM +-5% 1/10W	
R722	061T0603120 1F	RST CHIPR 1.2 KOHM +-1% 1/10W	
R468	061T0603123	RST CHIPR 12 KOHM +-5% 1/10W	
R212	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W	
R435	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W	
R434	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W	

R214	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W	
R520	061T0603182	CHIP 1.8K OHM 1/16W	
R521	061T0603182	CHIP 1.8K OHM 1/16W	
R718	061T0603200 1F	RST CHIPR 2 KOHM +-1% 1/10W	
R4A5	061T0603201	RST CHIPR 200 OHM +-5% 1/10W	
R211	061T0603202	RST CHIPR 2 KOHM +-5% 1/10W	
R213	061T0603220	CHIP 22OHM 1/10W	
R672	061T0603221	CHIP 220OHM 1/16W	
R671	061T0603221	CHIP 220OHM 1/16W	
R274	061T0603222	CHIP 2.2K OHM 1/16W	
R275	061T0603222	CHIP 2.2K OHM 1/16W	
R639	061T0603222	CHIP 2.2K OHM 1/16W	
R663	061T0603223	CHIP 22KOHM 1/16W	
R669	061T0603223	CHIP 22KOHM 1/16W	
R716	061T0603223	CHIP 22KOHM 1/16W	
R726	061T0603223	CHIP 22KOHM 1/16W	
R470	061T0603223	CHIP 22KOHM 1/16W	
R693	061T0603224	RST CHIPR 220 KOHM +-5% 1/10W	
R711	061T0603240 1F	RST CHIPR 2.4KOHM +-1% 1/10W	
R459	061T0603301	RST CHIPR 300OHM +-5% 1/10W	
R242	061T0603330	CHIP 33OHM 1/16W	
R243	061T0603330	CHIP 33OHM 1/16W	
R258	061T0603330	CHIP 33OHM 1/16W	
R259	061T0603330	CHIP 33OHM 1/16W	
R262	061T0603330	CHIP 33OHM 1/16W	
R263	061T0603330	CHIP 33OHM 1/16W	
R282	061T0603330	CHIP 33OHM 1/16W	
R284	061T0603330	CHIP 33OHM 1/16W	
R2B5	061T0603330	CHIP 33OHM 1/16W	
R2B6	061T0603330	CHIP 33OHM 1/16W	
R2D1	061T0603330	CHIP 33OHM 1/16W	
R2D2	061T0603330	CHIP 33OHM 1/16W	
R2D3	061T0603330	CHIP 33OHM 1/16W	
R2D4	061T0603330	CHIP 33OHM 1/16W	
R2D5	061T0603330	CHIP 33OHM 1/16W	
R2D6	061T0603330	CHIP 33OHM 1/16W	
R491	061T0603330	CHIP 33OHM 1/16W	
R485	061T0603330	CHIP 33OHM 1/16W	
R4B8	061T0603330	CHIP 33OHM 1/16W	
R605	061T0603330	CHIP 33OHM 1/16W	
R604	061T0603330	CHIP 33OHM 1/16W	
R298	061T0603330	CHIP 33OHM 1/16W	
R517	061T0603330	CHIP 33OHM 1/16W	
R529	061T0603330	CHIP 33OHM 1/16W	
R602	061T0603330	CHIP 33OHM 1/16W	
R603	061T0603330	CHIP 33OHM 1/16W	
R411	061T0603330	CHIP 33OHM 1/16W	
R412	061T0603330	CHIP 33OHM 1/16W	
R494	061T0603330	CHIP 33OHM 1/16W	
R495	061T0603330	CHIP 33OHM 1/16W	
R516	061T0603330	CHIP 33OHM 1/16W	
R285	061T0603330	CHIP 33OHM 1/16W	
R286	061T0603330	CHIP 33OHM 1/16W	
R290	061T0603330	CHIP 33OHM 1/16W	
R297	061T0603330	CHIP 33OHM 1/16W	
R221	061T0603330	CHIP 33OHM 1/16W	
R222	061T0603330	CHIP 33OHM 1/16W	

R225	061T0603330	CHIP 33OHM 1/16W	
R226	061T0603330	CHIP 33OHM 1/16W	
R227	061T0603330	CHIP 33OHM 1/16W	
R230	061T0603330	CHIP 33OHM 1/16W	
R233	061T0603330	CHIP 33OHM 1/16W	
R234	061T0603330	CHIP 33OHM 1/16W	
R449	061T0603330 1F	RST CHIPR 3.3 KOHM +-1% 1/10W	
R499	061T0603332	RST CHIPR 3.3 KOHM +-5% 1/10W	
R498	061T0603332	RST CHIPR 3.3 KOHM +-5% 1/10W	
R666	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W	
R665	061T0603333	RST CHIPR 33 KOHM +-5% 1/10W	
R651	061T0603339	RST CHIPR 3.3 OHM +-5% 1/10W	
R640	061T0603339	RST CHIPR 3.3 OHM +-5% 1/10W	
R413	061T06033401FY	RST CHIPR 3.4KOHM +-1% 1/10W YAGEO	
R237	061T0603348 0F	RST CHIPR 348 OHM +-1% 1/10W	
R525	061T0603390 0F	RST CHIPR 390 OHM +-1% 1/10W	
R510	061T0603390 0F	RST CHIPR 390 OHM +-1% 1/10W	
R512	061T0603392	CHIP 3.9KOHM 1/16W	
R436	061T0603470	RST CHIPR 47 OHM +-5% 1/10W	
R423	061T0603470	RST CHIPR 47 OHM +-5% 1/10W	
R422	061T0603470	RST CHIPR 47 OHM +-5% 1/10W	
R421	061T0603470	RST CHIPR 47 OHM +-5% 1/10W	
R201	061T0603470	RST CHIPR 47 OHM +-5% 1/10W	
R712	061T0603470 1F	CHIP 4.7K OHM 1/16W 1%	
R497	061T0603471	RST CHIPR 470OHM +-5% 1/10W	
R496	061T0603471	RST CHIPR 470OHM +-5% 1/10W	
R210	061T0603472	CHIP 4.7KOHM 1/16W	
R293	061T0603472	CHIP 4.7KOHM 1/16W	
R294	061T0603472	CHIP 4.7KOHM 1/16W	
R2B9	061T0603472	CHIP 4.7KOHM 1/16W	
R401	061T0603472	CHIP 4.7KOHM 1/16W	
R404	061T0603472	CHIP 4.7KOHM 1/16W	
R409	061T0603472	CHIP 4.7KOHM 1/16W	
R414	061T0603472	CHIP 4.7KOHM 1/16W	
R416	061T0603472	CHIP 4.7KOHM 1/16W	
R417	061T0603472	CHIP 4.7KOHM 1/16W	
R418	061T0603472	CHIP 4.7KOHM 1/16W	
R419	061T0603472	CHIP 4.7KOHM 1/16W	
R425	061T0603472	CHIP 4.7KOHM 1/16W	
R426	061T0603472	CHIP 4.7KOHM 1/16W	
R430	061T0603472	CHIP 4.7KOHM 1/16W	
R431	061T0603472	CHIP 4.7KOHM 1/16W	
R441	061T0603472	CHIP 4.7KOHM 1/16W	
R442	061T0603472	CHIP 4.7KOHM 1/16W	
R4A8	061T0603472	CHIP 4.7KOHM 1/16W	
R4A9	061T0603472	CHIP 4.7KOHM 1/16W	
R505	061T0603472	CHIP 4.7KOHM 1/16W	
R522	061T0603472	CHIP 4.7KOHM 1/16W	
R704	061T0603472	CHIP 4.7KOHM 1/16W	
R2B1	061T0603473	CHIP 47KOHM 1/16W	
R2B2	061T0603473	CHIP 47KOHM 1/16W	
R2B3	061T0603473	CHIP 47KOHM 1/16W	
R2B4	061T0603473	CHIP 47KOHM 1/16W	
R257	061T0603473	CHIP 47KOHM 1/16W	
R256	061T0603473	CHIP 47KOHM 1/16W	
R255	061T0603473	CHIP 47KOHM 1/16W	

R254	061T0603473	CHIP 47KOHM 1/16W	
R253	061T0603473	CHIP 47KOHM 1/16W	
R252	061T0603473	CHIP 47KOHM 1/16W	
R725	061T0603473	CHIP 47KOHM 1/16W	
R2A3	061T0603473	CHIP 47KOHM 1/16W	
R2A1	061T0603473	CHIP 47KOHM 1/16W	
R299	061T0603473	CHIP 47KOHM 1/16W	
R265	061T0603473	CHIP 47KOHM 1/16W	
R264	061T0603473	CHIP 47KOHM 1/16W	
R2B7	061T0603473	CHIP 47KOHM 1/16W	
R724	061T0603473	CHIP 47KOHM 1/16W	
R681	061T0603473	CHIP 47KOHM 1/16W	
R677	061T0603473	CHIP 47KOHM 1/16W	
R2B8	061T0603473	CHIP 47KOHM 1/16W	
R2C1	061T0603473	CHIP 47KOHM 1/16W	
R2C2	061T0603473	CHIP 47KOHM 1/16W	
R467	061T0603473	CHIP 47KOHM 1/16W	
R527	061T0603473	CHIP 47KOHM 1/16W	
R667	061T0603473	CHIP 47KOHM 1/16W	
R668	061T0603473	CHIP 47KOHM 1/16W	
R675	061T0603473	CHIP 47KOHM 1/16W	
R676	061T0603473	CHIP 47KOHM 1/16W	
R2A4	061T0603473	CHIP 47KOHM 1/16W	
R2A5	061T0603473	CHIP 47KOHM 1/16W	
R2A6	061T0603473	CHIP 47KOHM 1/16W	
R261	061T0603473	CHIP 47KOHM 1/16W	
R260	061T0603473	CHIP 47KOHM 1/16W	
R245	061T0603473	CHIP 47KOHM 1/16W	
R244	061T0603473	CHIP 47KOHM 1/16W	
R239	061T0603473	CHIP 47KOHM 1/16W	
R238	061T0603473	CHIP 47KOHM 1/16W	
R457	061T0603510	RST CHIPR 51 OHM +-5% 1/10W	
R458	061T0603510	RST CHIPR 51 OHM +-5% 1/10W	
R4B7	061T0603511	RST CHIPR 510 OHM +-5% 1/10W	
R203	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W	
R202	061T0603512	RST CHIPR 5.1 KOHM +-5% 1/10W	
R450	061T0603620 2F	RST CHIPR 62 KOHM +-1% 1/10W	
R508	061T0603682	RST CHIPR 6.8KOHM +-5% 1/10W	
R680	061T0603684	RST CHIPR 680 KOHM +-5% 1/10W	
R685	061T0603684	RST CHIPR 680 KOHM +-5% 1/10W	
R215	061T0603750	RST CHIPR 75 OHM +-5% 1/10W	
R448	061T0603750	RST CHIPR 75 OHM +-5% 1/10W	
R209	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R223	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R2C9	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R2C8	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R2C7	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R2C6	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R2C5	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R281	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R280	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R279	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R232	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R231	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R229	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R228	061T0603750 9F	CHIP 75OHM 1/10W 1%	
R224	061T0603750 9F	CHIP 75OHM 1/10W 1%	

R506	061T0603821	RST CHIPR 820 OHM +-5% 1/10W	
R692	061T0603821	RST CHIPR 820 OHM +-5% 1/10W	
R463	061T0603821	RST CHIPR 820 OHM +-5% 1/10W	
R4B1	061T0603822	RST CHIPR 8.2 KOHM +-5% 1/10W	
R447	061T0603845 0F	RST CHIPR 0603 845R 1/10W 1%	
R446	061T0603845 0F	RST CHIPR 0603 845R 1/10W 1%	
FB401	061T0805479	RST CHIPR 4.7 OHM +-5% 1/8W	
R720	061T0805560 1F	RST CHIPR 5.6 KOHM +-1% 1/8W	
R466	061T1206000	RST CHIPR 0 OHM +-5% 1/4W	
R738	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R739	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R740	061T1206000 4	RST CHIPR 0 OHM +-5% 1/4W	
R653	061T1206220	RST CHIPR 22 OHM +-5% 1/4W	
R633	061T1206220	RST CHIPR 22 OHM +-5% 1/4W	
C473	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C472	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C471	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C470	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C469	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C451	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C453	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C455	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C456	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C458	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C459	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C460	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C463	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C464	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C465	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C466	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C467	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C468	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C482	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C498	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C497	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C496	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C495	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C494	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C491	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C490	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C489	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C488	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C487	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C486	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C485	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C484	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C483	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C481	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C474	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C475	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C476	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4D2	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4C9	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4A5	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4A4	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4A3	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C4A2	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	

C4A1	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C499	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C204	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C207	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C208	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C209	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C211	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C212	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C221	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C222	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C225	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C414	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C413	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C411	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C409	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C406	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C234	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C233	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C230	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C226	065T0402104 12	CAP CHIP 0402 0.1UF 16V X7R	
C709	065T0603101 31	CHIP 100PF 50V NPO	
C280	065T0603101 31	CHIP 100PF 50V NPO	
C281	065T0603101 31	CHIP 100PF 50V NPO	
C282	065T0603101 31	CHIP 100PF 50V NPO	
C283	065T0603101 31	CHIP 100PF 50V NPO	
C298	065T0603101 31	CHIP 100PF 50V NPO	
C299	065T0603101 31	CHIP 100PF 50V NPO	
C708	065T0603101 31	CHIP 100PF 50V NPO	
C6B3	065T0603101 31	CHIP 100PF 50V NPO	
C6B2	065T0603101 31	CHIP 100PF 50V NPO	
C697	065T0603101 31	CHIP 100PF 50V NPO	
C696	065T0603101 31	CHIP 100PF 50V NPO	
C2B1	065T0603101 31	CHIP 100PF 50V NPO	
C2A9	065T0603101 31	CHIP 100PF 50V NPO	
C289	065T0603102 21	CHIP 1000PF 25V NPO	
C293	065T0603102 21	CHIP 1000PF 25V NPO	
C217	065T0603102 31	CHIP 1000PF 50V NPO	
C223	065T0603102 31	CHIP 1000PF 50V NPO	
C203	065T0603102 32	CHIP 1000PF 50V X7R	
C214	065T0603102 32	CHIP 1000PF 50V X7R	
C734	065T0603102 32	CHIP 1000PF 50V X7R	
C724	065T0603102 32	CHIP 1000PF 50V X7R	
C717	065T0603102 32	CHIP 1000PF 50V X7R	
C699	065T0603102 32	CHIP 1000PF 50V X7R	
C693	065T0603102 32	CHIP 1000PF 50V X7R	
C688	065T0603102 32	CHIP 1000PF 50V X7R	
C685	065T0603102 32	CHIP 1000PF 50V X7R	
C683	065T0603102 32	CHIP 1000PF 50V X7R	
C670	065T0603102 32	CHIP 1000PF 50V X7R	
C667	065T0603102 32	CHIP 1000PF 50V X7R	
C665	065T0603102 32	CHIP 1000PF 50V X7R	
C657	065T0603102 32	CHIP 1000PF 50V X7R	
C653	065T0603102 32	CHIP 1000PF 50V X7R	
C652	065T0603102 32	CHIP 1000PF 50V X7R	
C457	065T0603102 32	CHIP 1000PF 50V X7R	
C454	065T0603102 32	CHIP 1000PF 50V X7R	
C450	065T0603102 32	CHIP 1000PF 50V X7R	

C412	065T0603102 32	CHIP 1000PF 50V X7R	
C410	065T0603102 32	CHIP 1000PF 50V X7R	
C408	065T0603102 32	CHIP 1000PF 50V X7R	
C452	065T0603103 12	CHIP 0.01UF 16V X7R	
C620	065T0603103 12	CHIP 0.01UF 16V X7R	
C621	065T0603103 12	CHIP 0.01UF 16V X7R	
C655	065T0603103 12	CHIP 0.01UF 16V X7R	
C509	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C510	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C511	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C512	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C513	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C514	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C515	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C609	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C608	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C607	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C606	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C516	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C517	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C603	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C604	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C605	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C447	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4A9	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B2	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B3	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B6	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4B7	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4C2	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4C4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C4D1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C501	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C502	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C503	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C504	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C505	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C506	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C507	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C508	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C610	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C705	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C711	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C713	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C721	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C722	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C727	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C728	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C731	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C732	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C733	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C736	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C739	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C742	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	

C743	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C749	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C750	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C756	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C771	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C611	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C612	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C613	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C632	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C634	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C643	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C645	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C646	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C647	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C658	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C673	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C674	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C680	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C681	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C6B1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C6B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C6B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C702	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C446	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C401	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2B7	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2B6	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2B5	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2B4	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2A3	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C2A1	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C295	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C292	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C291	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C290	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C270	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C268	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C260	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C256	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C255	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C250	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C248	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C244	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C243	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C236	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C215	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C201	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C445	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C444	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C443	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C442	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C441	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C440	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C439	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C438	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C437	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C436	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	

C434	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C433	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C403	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C422	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C423	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C425	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C426	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C427	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C428	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C429	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C430	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C431	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C432	065T0603104 12	MLCC 0603 0.1UF K 16V X7R	
C679	065T0603104 32	CHIP 0.1UF 50V X7R	
C682	065T0603104 32	CHIP 0.1UF 50V X7R	
C686	065T0603104 32	CHIP 0.1UF 50V X7R	
C689	065T0603104 32	CHIP 0.1UF 50V X7R	
C690	065T0603104 32	CHIP 0.1UF 50V X7R	
C716	065T0603104 32	CHIP 0.1UF 50V X7R	
C723	065T0603104 32	CHIP 0.1UF 50V X7R	
C744	065T0603104 32	CHIP 0.1UF 50V X7R	
C746	065T0603104 32	CHIP 0.1UF 50V X7R	
C449	065T0603104 32	CHIP 0.1UF 50V X7R	
C461	065T0603104 32	CHIP 0.1UF 50V X7R	
C672	065T0603104 32	CHIP 0.1UF 50V X7R	
C678	065T0603104 32	CHIP 0.1UF 50V X7R	
C4C7	065T0603104 32	CHIP 0.1UF 50V X7R	
C660	065T0603104 32	CHIP 0.1UF 50V X7R	
C661	065T0603104 32	CHIP 0.1UF 50V X7R	
C664	065T0603104 32	CHIP 0.1UF 50V X7R	
C668	065T0603104 32	CHIP 0.1UF 50V X7R	
C671	065T0603104 32	CHIP 0.1UF 50V X7R	
C235	065T0603105 12	CHIP 1UF 16V X7R	
C415	065T0603105 12	CHIP 1UF 16V X7R	
C477	065T0603105 12	CHIP 1UF 16V X7R	
C478	065T0603105 12	CHIP 1UF 16V X7R	
C4A6	065T0603105 12	CHIP 1UF 16V X7R	
C492	065T0603105 12	CHIP 1UF 16V X7R	
C615	065T0603105 17	CHIP 1UF 16V Y5V	
C691	065T0603105 17	CHIP 1UF 16V Y5V	
C692	065T0603105 17	CHIP 1UF 16V Y5V	
C614	065T0603105 17	CHIP 1UF 16V Y5V	
C6B6	065T0603105 17	CHIP 1UF 16V Y5V	
C698	065T0603105 17	CHIP 1UF 16V Y5V	
C462	065T0603105 25	CHIP 1UF 25V X5R	
C773	065T0603105 A7	CHIP 1UF 10V Y5V	
C206	065T0603220 31	CHIP 22PF 50V NPO	
C205	065T0603220 31	CHIP 22PF 50V NPO	
C694	065T0603221 32	CHIP 220PF 50V X7R	
C695	065T0603221 32	CHIP 220PF 50V X7R	
C758	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C759	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C656	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C402	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C297	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C288	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C287	065T0603224 22	CHIP CAP 0.22UF 25V X7	

C286	065T0603224 22	CHIP CAP 0.22UF 25V X7	
C769	065T0603225 A5	CHIP 2.2UF 10V X5R	
C649	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C648	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C638	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C637	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C629	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C628	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C625	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C624	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C619	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C618	065T0603225A5K Y	CAP CHIP 0603 2.2UF K 10V X5R	
C651	065T0603270 31	CHIP 27PF 50V NPO	
C650	065T0603270 31	CHIP 27PF 50V NPO	
C642	065T0603270 31	CHIP 27PF 50V NPO	
C641	065T0603270 31	CHIP 27PF 50V NPO	
C640	065T0603270 31	CHIP 27PF 50V NPO	
C636	065T0603270 31	CHIP 27PF 50V NPO	
C631	065T0603270 31	CHIP 27PF 50V NPO	
C630	065T0603270 31	CHIP 27PF 50V NPO	
C627	065T0603270 31	CHIP 27PF 50V NPO	
C626	065T0603270 31	CHIP 27PF 50V NPO	
C623	065T0603270 31	CHIP 27PF 50V NPO	
C622	065T0603270 31	CHIP 27PF 50V NPO	
C617	065T0603270 31	CHIP 27PF 50V NPO	
C616	065T0603270 31	CHIP 27PF 50V NPO	
C405	065T0603300 31	CHIP 0603 30PF J 50V NPO	
C4B9	065T0603300 31	CHIP 0603 30PF J 50V NPO	
C4C1	065T0603300 31	CHIP 0603 30PF J 50V NPO	
C404	065T0603330 31	CHIP 33PF 50V NPO	
C669	065T0603331 32	CHIP 330PF 50V X7R	
C687	065T0603331 32	CHIP 330PF 50V X7R	
C6A3	065T0603331 32	CHIP 330PF 50V X7R	
C6A4	065T0603331 32	CHIP 330PF 50V X7R	
C417	065T0603392 32	CHIP 3900PF 50V X7R	
C416	065T0603393 32	CHIP 0.039UF 50V X7R	
C261	065T0603470 31	CHIP 47PF 50V NPO	
C258	065T0603470 31	CHIP 47PF 50V NPO	
C257	065T0603470 31	CHIP 47PF 50V NPO	
C251	065T0603470 31	CHIP 47PF 50V NPO	
C245	065T0603470 31	CHIP 47PF 50V NPO	
C246	065T0603470 31	CHIP 47PF 50V NPO	
C249	065T0603470 31	CHIP 47PF 50V NPO	
C247	065T0603470 32	CHIP 47PF 50V X7R	
C265	065T0603470 32	CHIP 47PF 50V X7R	
C242	065T0603470 32	CHIP 47PF 50V X7R	
C241	065T0603470 32	CHIP 47PF 50V X7R	
C202	065T0603470 32	CHIP 47PF 50V X7R	
C266	065T0603470 32	CHIP 47PF 50V X7R	
C267	065T0603470 32	CHIP 47PF 50V X7R	
C277	065T0603470 32	CHIP 47PF 50V X7R	
C278	065T0603470 32	CHIP 47PF 50V X7R	
C279	065T0603470 32	CHIP 47PF 50V X7R	
C6A5	065T0603471 32	CHIP 470PF 50V NPO	
C6A6	065T0603471 32	CHIP 470PF 50V NPO	
C676	065T060347232K Y	CAP CHIP 0603 4700PF K 50V X7R	
C421	065T0603474 12	CHIP 0.47UF 16V X7R	

C4B8	065T0603560 31 GP	MLCC 0603 56PF J 50V NPO	
C4C8	065T0603560 31 GP	MLCC 0603 56PF J 50V NPO	
C677	065T0603681 21	CHIP 680PF 25V NPO	
C220	065T0603820 31	0603 82PF +-5%, 50V NPO	
C662	065T0805105 37	CHIP 1UF 50V Y5V	
C663	065T0805105 37	CHIP 1UF 50V Y5V	
C407	065T0805106 A7	CHIP 10UF 10V Y5V 0805	
C210	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C231	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C269	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C418	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C419	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C420	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C4D4	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C703	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C710	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C772	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C774	065T0805475A2K M	MLCC 0805 CAP 4.7UF 10V X7R	
C633	065T1206106 17	CHIP 10UF 16V Y5V	
C635	065T1206106 17	CHIP 10UF 16V Y5V	
C4A8	065T120610612K 3	CHIP 10UF 16V X7R 10%	
C4A7	065T120610612K 3	CHIP 10UF 16V X7R 10%	
C493	065T120610612K 3	CHIP 10UF 16V X7R 10%	
C480	065T120610612K 3	CHIP 10UF 16V X7R 10%	
C479	065T120610612K 3	CHIP 10UF 16V X7R 10%	
C738	065T1206226 A7	CHIP 1206 22UF Z 10V	
FB402	071T 56D121 JA	CHIP BEAD 120 OHM 0805 1A	
FB611	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB610	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB503	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB502	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB501	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB413	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB412	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB411	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB410	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB409	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB408	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB407	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB404	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB403	071T 56G301 EA	CHIP BEAD 300 OHM 0805	
FB608	071T 56V301 B	CHIP BEAD 0805 300OHM 700MA BULLWILL	
FB606	071T 56Z601	CHIP BEAD 600 OHM	
FB607	071T 56Z601	CHIP BEAD 600 OHM	
FB707	071T 57G301 EA	CHIP BEAD	
FB706	071T 57G301 EA	CHIP BEAD	
FB704	071T 57G301 EA	CHIP BEAD	
FB703	071T 57G301 EA	CHIP BEAD	
FB406	071T 57G301 EA	CHIP BEAD	
FB202	071T 59B121	BEAD 0603 120 OHM	
FB204	071T 59B121	BEAD 0603 120 OHM	
FB205	071T 59B121	BEAD 0603 120 OHM	
FB207	071T 59B121	BEAD 0603 120 OHM	
FB208	071T 59B121	BEAD 0603 120 OHM	
FB211	071T 59B121	BEAD 0603 120 OHM	
FB212	071T 59B121	BEAD 0603 120 OHM	

FB213	071T 59B121	BEAD 0603 120 OHM	
FB414	071T 59B121	BEAD 0603 120 OHM	
FB609	071T 59B121	BEAD 0603 120 OHM	
FB702	071T 59B121	BEAD 0603 120 OHM	
FB710	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB709	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB708	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB236	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB235	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB234	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB206	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB203	071T 59B601 EA	CHIP BEAD 600OHM 0603 TB1608	
FB216	071T 59C300	CHIP BEAD 30 OHM 0603	
FB229	071T 59C300	CHIP BEAD 30 OHM 0603	
FB228	071T 59C300	CHIP BEAD 30 OHM 0603	
FB227	071T 59C300	CHIP BEAD 30 OHM 0603	
FB222	071T 59C300	CHIP BEAD 30 OHM 0603	
FB221	071T 59C300	CHIP BEAD 30 OHM 0603	
FB220	071T 59C300	CHIP BEAD 30 OHM 0603	
FB218	071T 59C300	CHIP BEAD 30 OHM 0603	
FB217	071T 59C300	CHIP BEAD 30 OHM 0603	
FB209	071T 59G301	CHIP BEAD 300OHM	
FB210	071T 59G301	CHIP BEAD 300OHM	
FB214	071T 59G301	CHIP BEAD 300OHM	
FB215	071T 59G301	CHIP BEAD 300OHM	
FB223	071T 59G301	CHIP BEAD 300OHM	
FB224	071T 59G301	CHIP BEAD 300OHM	
FB225	071T 59G301	CHIP BEAD 300OHM	
FB226	071T 59G301	CHIP BEAD 300OHM	
FB230	071T 59G301	CHIP BEAD 300OHM	
FB231	071T 59G301	CHIP BEAD 300OHM	
FB232	071T 59G301	CHIP BEAD 300OHM	
FB233	071T 59G301	CHIP BEAD 300OHM	
L606	071T160833102Y	CHIP BEAD 0603 330OHM	
L605	071T160833102Y	CHIP BEAD 0603 330OHM	
FB601	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A	
FB602	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A	
FB603	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A	
FB604	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A	
FB605	071T2012221 2Y	CHIP BEAD 0805 220OHM +-25% 2A	
L201	073T 57228	CHIP INDUCTOR 0805 0.22UH+-10% JKMT	
L203	073T 57228	CHIP INDUCTOR 0805 0.22UH+-10% JKMT	
L202	073T 8515810K	CHIP INDUCTOR 0.15UH 10% 0805	
L401	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L505	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L506	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L507	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L508	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L509	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L510	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	

L511	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L512	073T253S 6 T	SMD CHOKE 90 OHM ACM2012D-900-2P-T00	
L413	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L412	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L411	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L410	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L407	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L406	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L405	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L404	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L403	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L402	073T253S 44 T	SMD CHOKE 90 OHM ACM2012H-900-2P-T	
L702	073T253S 46 B	SMD CHOKE TP0504-4R7M 4.7UH	
F402	084T 52 15 B GP	CHIP FUSE 1.0A 63V	
F401	084T 52 20 B	CHIP FUSE 0.5A 63V	
CN503	088T 340 19 AV	HDMI HEADER 19P +SCREW HOLE	
CN501	088T 340 21 VN	HDMI HEADER 21P V/A	
CN502	088T 340 21 VN	HDMI HEADER 21P V/A	
ZD232	093T 60230	BAT54C BY MCC	
ZD243	093T 64 37 N	V-PORT-0603-100K V05	
ZD242	093T 64 37 N	V-PORT-0603-100K V05	
ZD241	093T 64 37 N	V-PORT-0603-100K V05	
ZD240	093T 64 37 N	V-PORT-0603-100K V05	
ZD239	093T 64 37 N	V-PORT-0603-100K V05	
ZD238	093T 64 37 N	V-PORT-0603-100K V05	
ZD237	093T 64 37 N	V-PORT-0603-100K V05	
ZD222	093T 64 37 N	V-PORT-0603-100K V05	
ZD223	093T 64 37 N	V-PORT-0603-100K V05	
ZD224	093T 64 37 N	V-PORT-0603-100K V05	
ZD225	093T 64 37 N	V-PORT-0603-100K V05	
ZD226	093T 64 37 N	V-PORT-0603-100K V05	
ZD227	093T 64 37 N	V-PORT-0603-100K V05	
ZD228	093T 64 37 N	V-PORT-0603-100K V05	
ZD229	093T 64 37 N	V-PORT-0603-100K V05	
ZD231	093T 64 37 N	V-PORT-0603-100K V05	
ZD233	093T 64 37 N	V-PORT-0603-100K V05	
ZD234	093T 64 37 N	V-PORT-0603-100K V05	
ZD235	093T 64 37 N	V-PORT-0603-100K V05	
ZD236	093T 64 37 N	V-PORT-0603-100K V05	
ZD405	093T 64 37 N	V-PORT-0603-100K V05	
ZD406	093T 64 37 N	V-PORT-0603-100K V05	
ZD407	093T 64 37 N	V-PORT-0603-100K V05	
ZD408	093T 64 37 N	V-PORT-0603-100K V05	
ZD409	093T 64 37 N	V-PORT-0603-100K V05	
ZD410	093T 64 37 N	V-PORT-0603-100K V05	
ZD411	093T 64 37 N	V-PORT-0603-100K V05	
ZD412	093T 64 37 N	V-PORT-0603-100K V05	

ZD605	093T 64 37 N	V-PORT-0603-100K V05	
ZD604	093T 64 37 N	V-PORT-0603-100K V05	
ZD603	093T 64 37 N	V-PORT-0603-100K V05	
ZD602	093T 64 37 N	V-PORT-0603-100K V05	
ZD601	093T 64 37 N	V-PORT-0603-100K V05	
ZD404	093T 64 37 N	V-PORT-0603-100K V05	
ZD413	093T 64 37 N	V-PORT-0603-100K V05	
ZD501	093T 64 37 N	V-PORT-0603-100K V05	
ZD502	093T 64 37 N	V-PORT-0603-100K V05	
ZD503	093T 64 37 N	V-PORT-0603-100K V05	
ZD504	093T 64 37 N	V-PORT-0603-100K V05	
ZD505	093T 64 37 N	V-PORT-0603-100K V05	
ZD506	093T 64 37 N	V-PORT-0603-100K V05	
ZD507	093T 64 37 N	V-PORT-0603-100K V05	
ZD508	093T 64 37 N	V-PORT-0603-100K V05	
ZD509	093T 64 37 N	V-PORT-0603-100K V05	
ZD401	093T 64 37 N	V-PORT-0603-100K V05	
ZD402	093T 64 37 N	V-PORT-0603-100K V05	
ZD403	093T 64 37 N	V-PORT-0603-100K V05	
ZD221	093T 64 37 N	V-PORT-0603-100K V05	
ZD201	093T 64 37 N	V-PORT-0603-100K V05	
ZD202	093T 64 37 N	V-PORT-0603-100K V05	
ZD203	093T 64 37 N	V-PORT-0603-100K V05	
ZD204	093T 64 37 N	V-PORT-0603-100K V05	
ZD205	093T 64 37 N	V-PORT-0603-100K V05	
ZD206	093T 64 37 N	V-PORT-0603-100K V05	
ZD207	093T 64 37 N	V-PORT-0603-100K V05	
ZD208	093T 64 37 N	V-PORT-0603-100K V05	
ZD209	093T 64 37 N	V-PORT-0603-100K V05	
ZD210	093T 64 37 N	V-PORT-0603-100K V05	
ZD220	093T 64 37 N	V-PORT-0603-100K V05	
ZD219	093T 64 37 N	V-PORT-0603-100K V05	
ZD218	093T 64 37 N	V-PORT-0603-100K V05	
ZD217	093T 64 37 N	V-PORT-0603-100K V05	
ZD216	093T 64 37 N	V-PORT-0603-100K V05	
ZD215	093T 64 37 N	V-PORT-0603-100K V05	
ZD214	093T 64 37 N	V-PORT-0603-100K V05	
ZD213	093T 64 37 N	V-PORT-0603-100K V05	
ZD212	093T 64 37 N	V-PORT-0603-100K V05	
ZD211	093T 64 37 N	V-PORT-0603-100K V05	
D604	093T 6432P	LL4148 BY PANJIT	
D606	093T 6432P	LL4148 BY PANJIT	
D605	093T 6432P	LL4148 BY PANJIT	
D401	093T 6432P	LL4148 BY PANJIT	
D403	093T 6432P	LL4148 BY PANJIT	
D603	093T 6432P	LL4148 BY PANJIT	
ZD704	093T3004 3	SM340A DO-214AC BY SECOS	
ZD701	093T3004 3	SM340A DO-214AC BY SECOS	
ZD702	093T3004 3	SM340A DO-214AC BY SECOS	
	715T2830 2 2	MAIN BOARD PCB	
	Q36T 600 35 18 GP	NONWOVEN FABRIC	
	Q40T000262429A	I/O LABEL	
	Q85T0084101	SHIELDING COVER	
	Q85T0085101	SHIELDING BTM	
	IRPF8QAB	IR BOARD	
U01	056T 627 33	IR 37.9KHZ KSM-603LM2E	
CN01	033T8032 5F HR	CONN.1.25PITCH	

R01	061T0603153	RST CHIPR 15 KOHM +-5% 1/10W	
C01	065T0603104 32	CHIP 0.1UF 50V X7R	
LED01	081T 14 24 EL	CHIP LED BLUE/DARK RED	
	715T2687 1	IR BOARD PCB	
	Q11T6039 2	WIRE HOLDER	
	Q36T 600 30 5	NONWOVEN FABRIC	
	Q36T 600 37 35 GP	NONWOVEN FABRIC	
	Q36T 600 43 1	NONWOVEN FABRIC	
	Q44TS002001	U TYPE CARTON	
	Q44TS002101	EPS	
	Q44TS002201	EPS	
	Q44TS002301 1	EPS	
	Q44TS002401 1	EPS SANYO	
	Q44TS002501	EPS	
	Q45T 99609 70	EPE COVER FOR BASE	
	Q45T 99609 83	EPE COVER FOR MONITOR	
	Q50T 500523	CABLE TIE	
	750TVMW0H0322N	PAENL V470H1-L03 C2 NB CMO	2nd source
	A15T0303102	FIX BKT FOR AUO SIDE	
	Q07T 8 1 11	COMPOUND PALLET	
	Q40T 470615 4A	RATING LABEL	
	Q40T000262482A	POP LABEL	
	Q44T600027V 9A	CARTON FOR SMALL MATERIAL	
	Q44TS002BLO001	PAPER SHEET	

12. Different Parts List

Diversity of E478MZNKW8AENN compared with E478MZNKW8A52N		
Location	**Part No.**	**Description**
U411	056G1125701 X(DAEKZ4V19SQ1)	IC MCU RTD2120L-LF REALTEK
U402	056G1133103(DAEKZ3M47NQ1)	IC M25P32-VMF6P 32M s0-16
	Q44TS002615 7A T	47 TV AOC CARTON TOP
	Q44TS002615 7A B	47 TV AOC CARTON BOTTOM
	Q41T780067358A	WARRANTY CARD
	040T 581 26704	SHIPPING LABEL
	Q40T 470615 8A	RATING LABEL
	Q40G0001624 4A	PALLET LABEL
	045G 77501	BARCODE RIBBON

Diversity of E478MZNSW8AENN compared with E478MZNKW8A52N		
Location	**Part No.**	**Description**
U411	056G1125701 X(DAEKZ4V19SQ1)	IC MCU RTD2120L-LF REALTEK
U402	056G1133103(DAEKZ3M47NQ1)	IC M25P32-VMF6P 32M S0-16
	040T 581 26704	SHIPPING LABEL
	045G 77501	BARCODE RIBBON
	Q40G0001624 4A	PALLET LABEL
	Q40G000267351A	SA GUARANTEE LABEL
	Q40T 470615 8A	RATING LABEL
	Q44TS002615 7A B	47 TV AOC CARTON BOTTOM
	Q44TS002615 7A T	47 TV AOC CARTON TOP
	Q41T780061532D	SA CENTER LIST
	Q41T780067353B	WARRANTY CARD